

ATTACHMENT 2

**Photographs Taken During
USEPA Region 7 Inspection on 10/13/2016**

**Acadia Subdivision Plat 2
41.646, -93.841
Northwest of the intersection of Meredith Drive
and 160th Street
Urbandale, IA**

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

P = Photograph #

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Meredith Dr

160th St

162nd St

Google earth

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

www.AccurateDevelopment.com



Acadia

more than a neighborhood

Coming Soon!

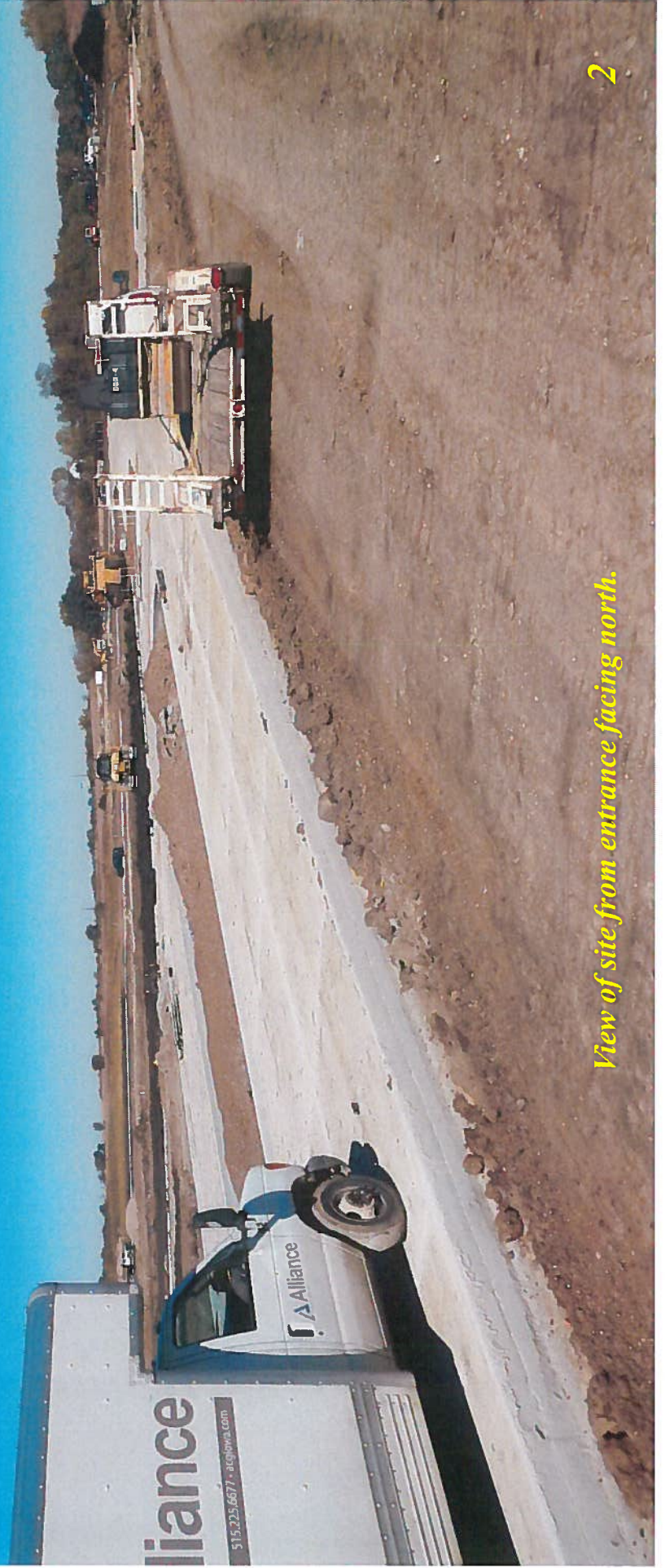
BY: **ACCURATE DEVELOPMENT** inc.

Contact: Brenda Johnson • 916-778-0800

Lowball Realty

Signature

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of site from entrance facing north.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of concrete wash out bin.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of silt fence from southeast corner of site facing west.

Acadia Subdivision Plat 2
10/13/16 USEPA Inspection

View of silt fence at southeast corner of site.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

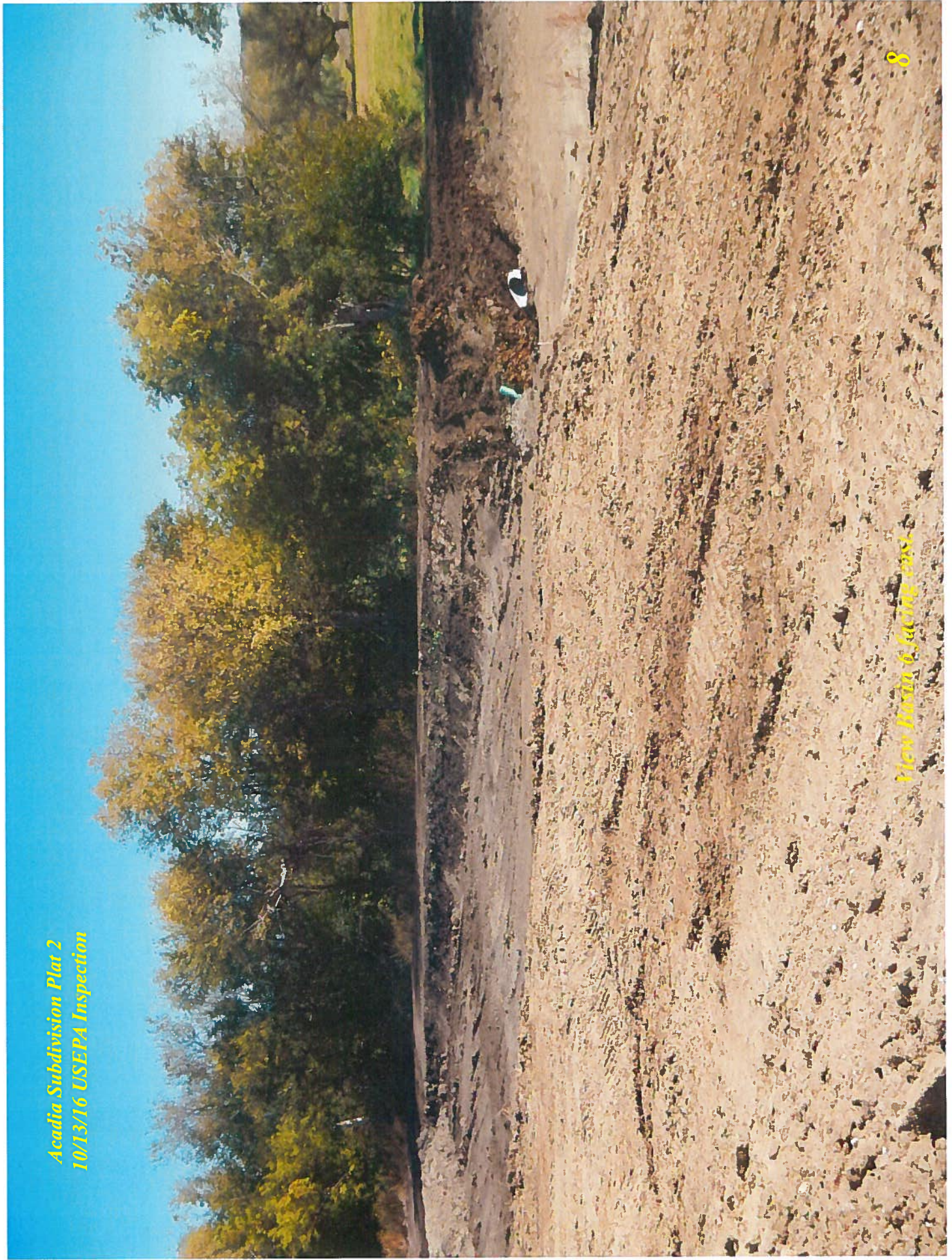
View of silt fence located at the southeast corner of the site.



Acadly Subdivision Plat 2
10/13/16 USEPA Inspection

Flow of sediment undermining the well fence at the southeast corner of the site

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View North looking east.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of inflow structure to Basin 5B facing west

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

View of stormwater inlet along Goodman Court. Inlet structure flows to

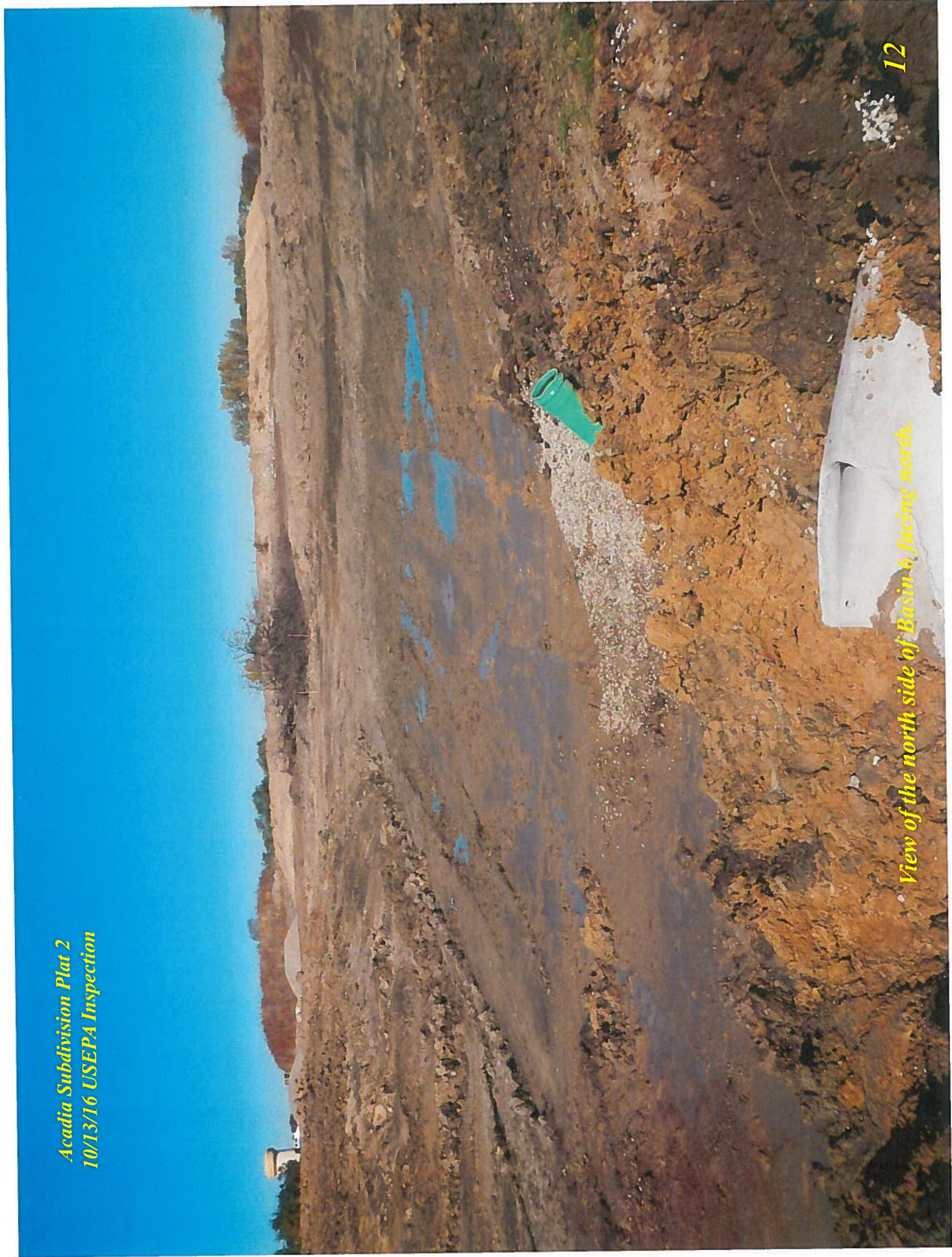
Basin 6.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



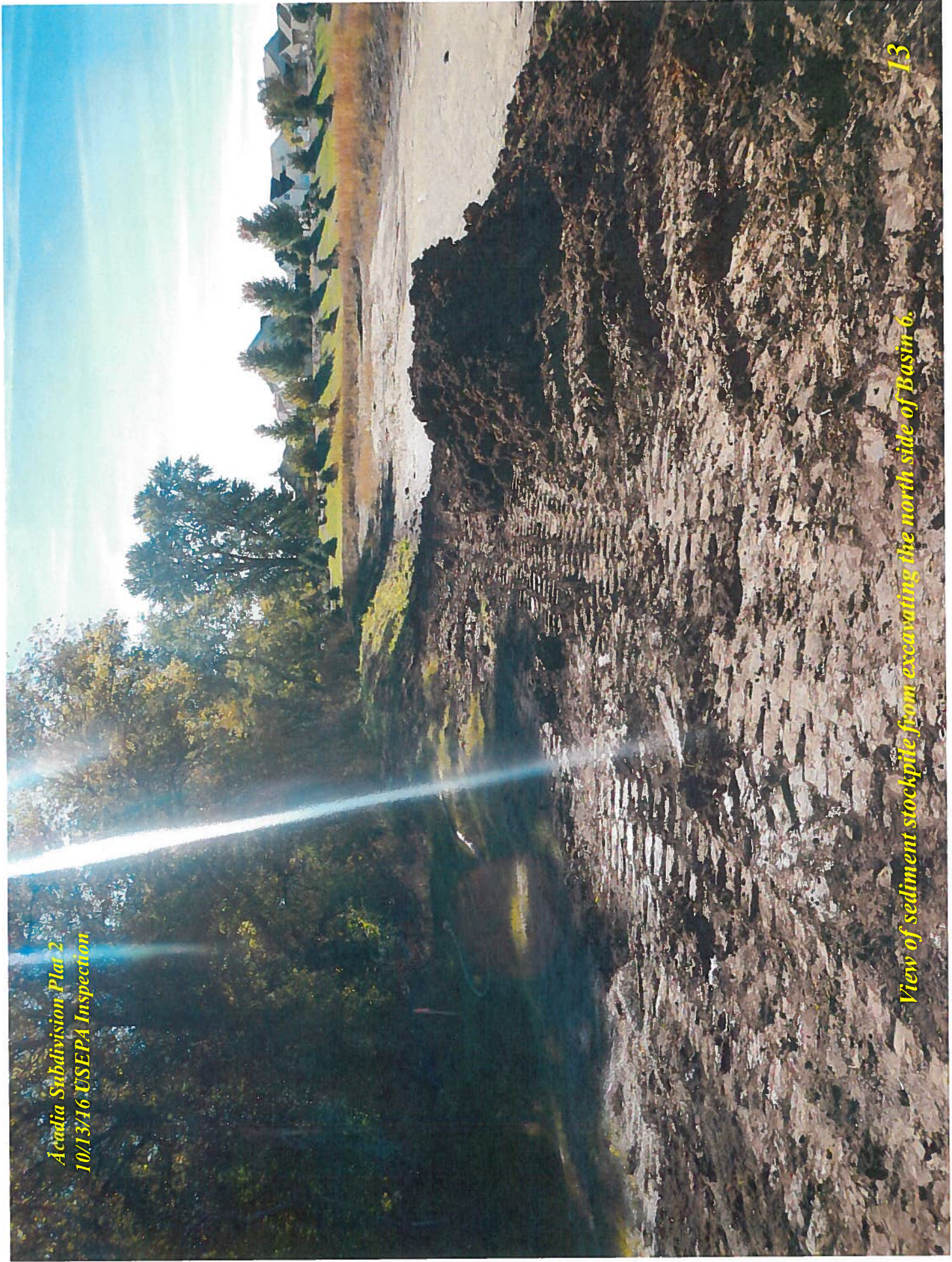
View of inflow structure to Basin 6 facing west.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



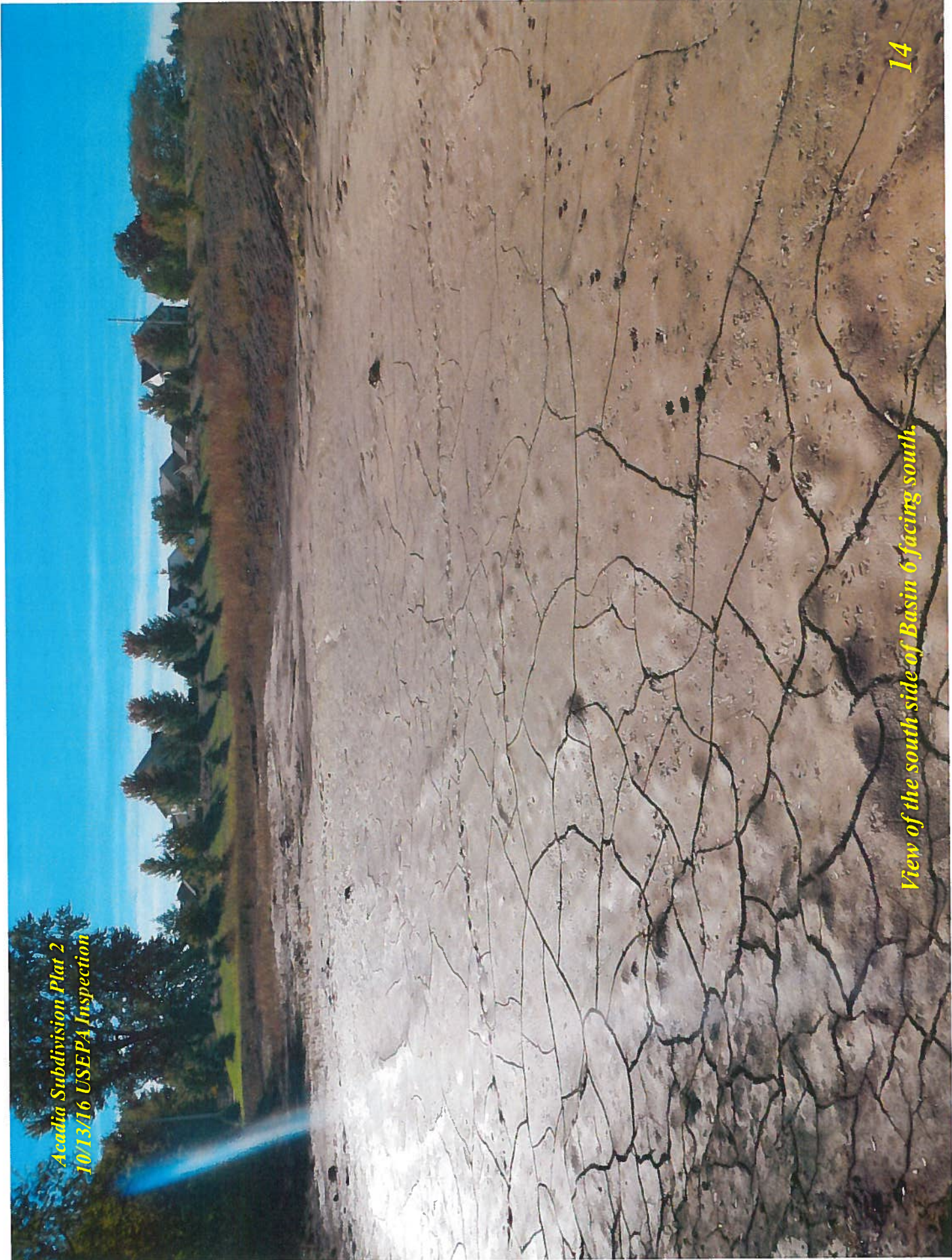
View of the north side of Basin 6, facing north.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of sediment stockpile from excavating the north side of Basin 6.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

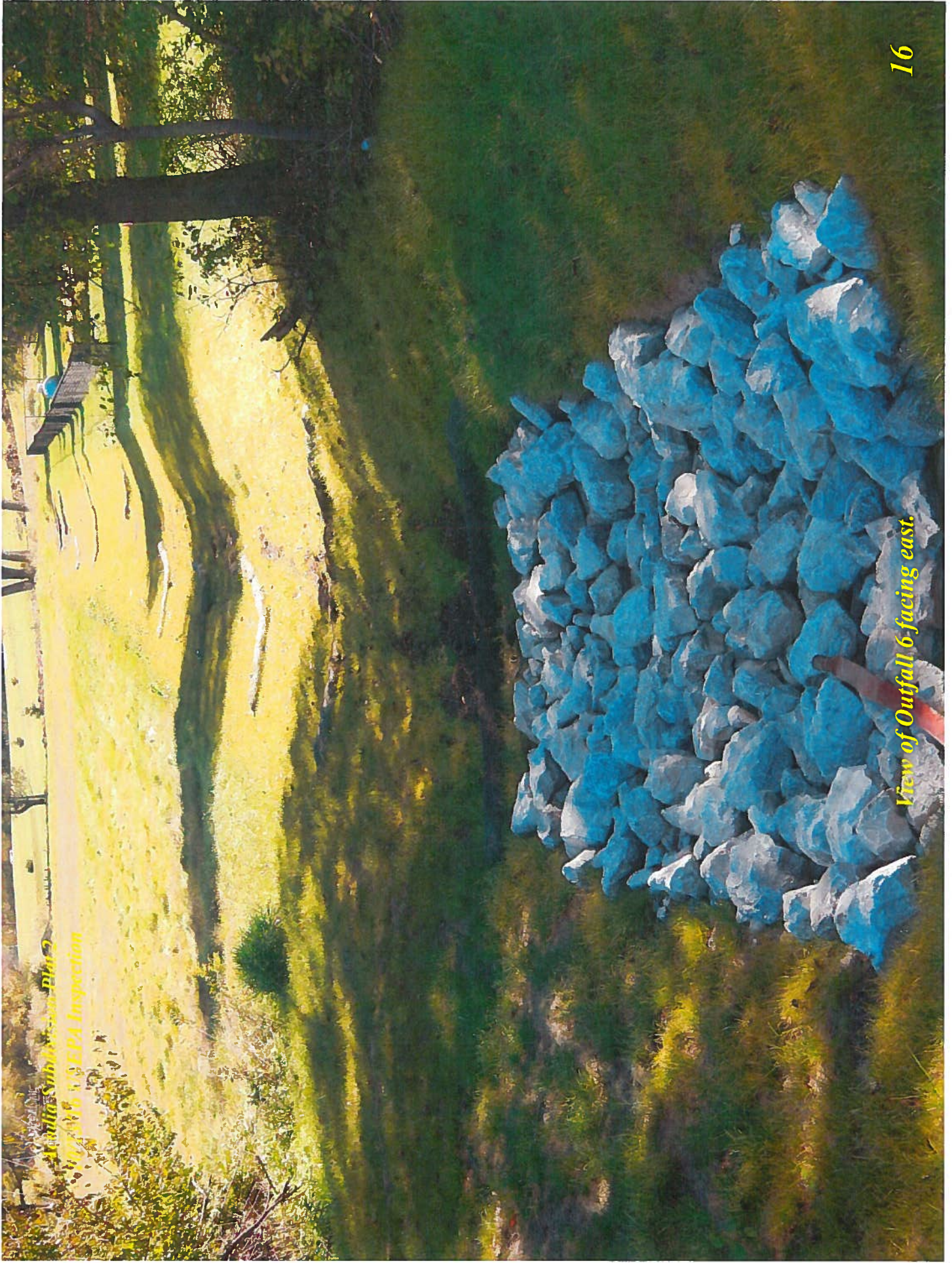


View of the south side of Basin 6 facing south.



View of outfall structure from Basin 6. The stand up pipe was removed.

Wadsworth Substation, Plot 2
07/17/06 CNEPA Inspection



View of Outfall 6 facing east.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

View of inlet structure on 161st Street which flows to Basin 5B.

*Aradia Subdivision Plot 2
10/13/16 V/S EPA Inspection*

*View of inlet structure on Oakwood Drive which discharges
to Outfall 5.*



View of inlet structure on Oakwood Drive which discharges to Outfall 5.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

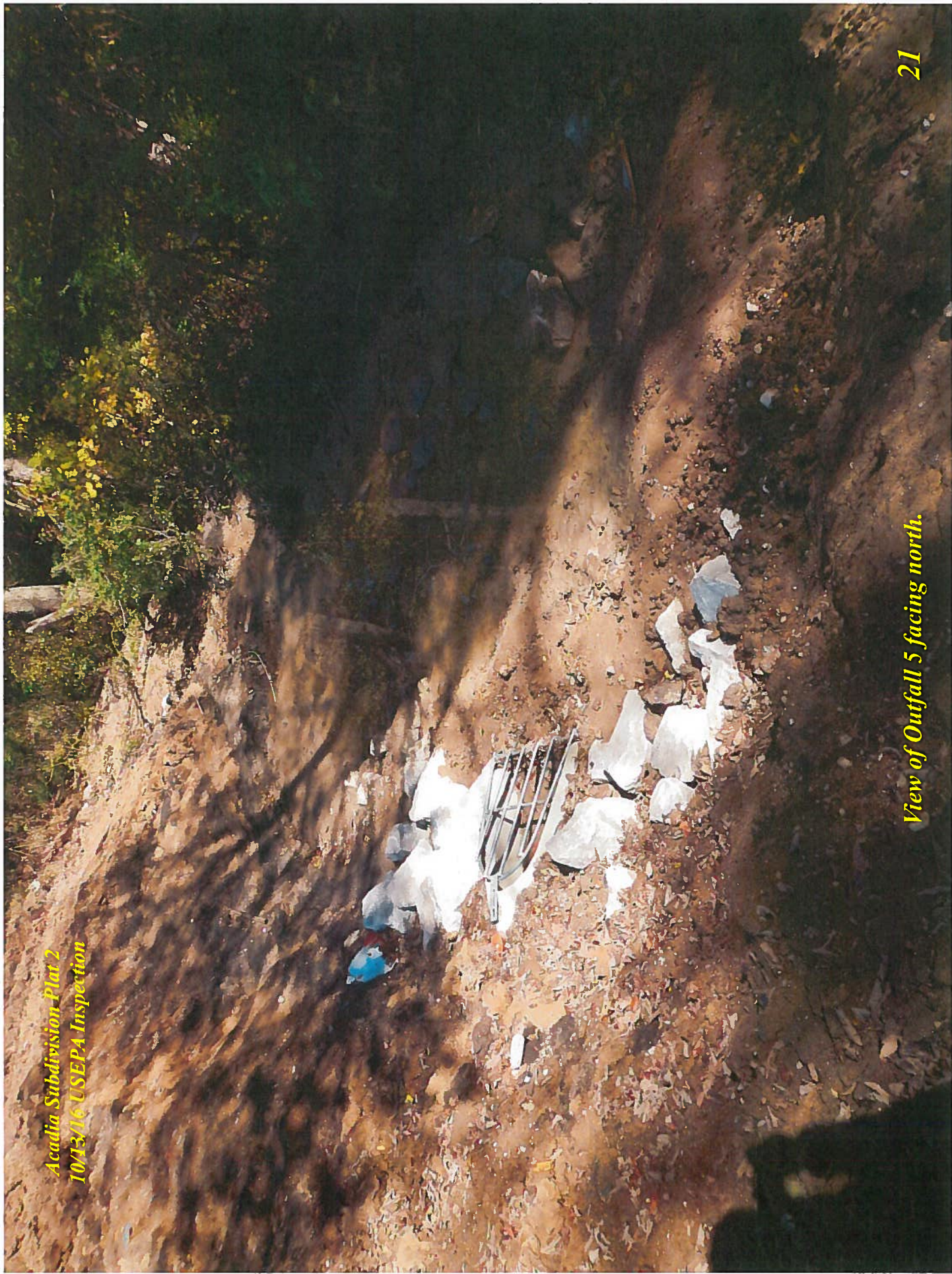


View of outfall structure from Basin 5B. The stand up pipe was removed.

*Acadia Subdivision-Flat 2
10/13/16 USEPA Inspection*

View of Outfall 5 facing north.

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Acadia Subdivision Plat 2
10-2-2011 USEPA Inspection



View of discharge path from Outfall 5 facing south

Acadia Subdivision Plat 2
10/13/16 USEPA Inspection

Subdiv

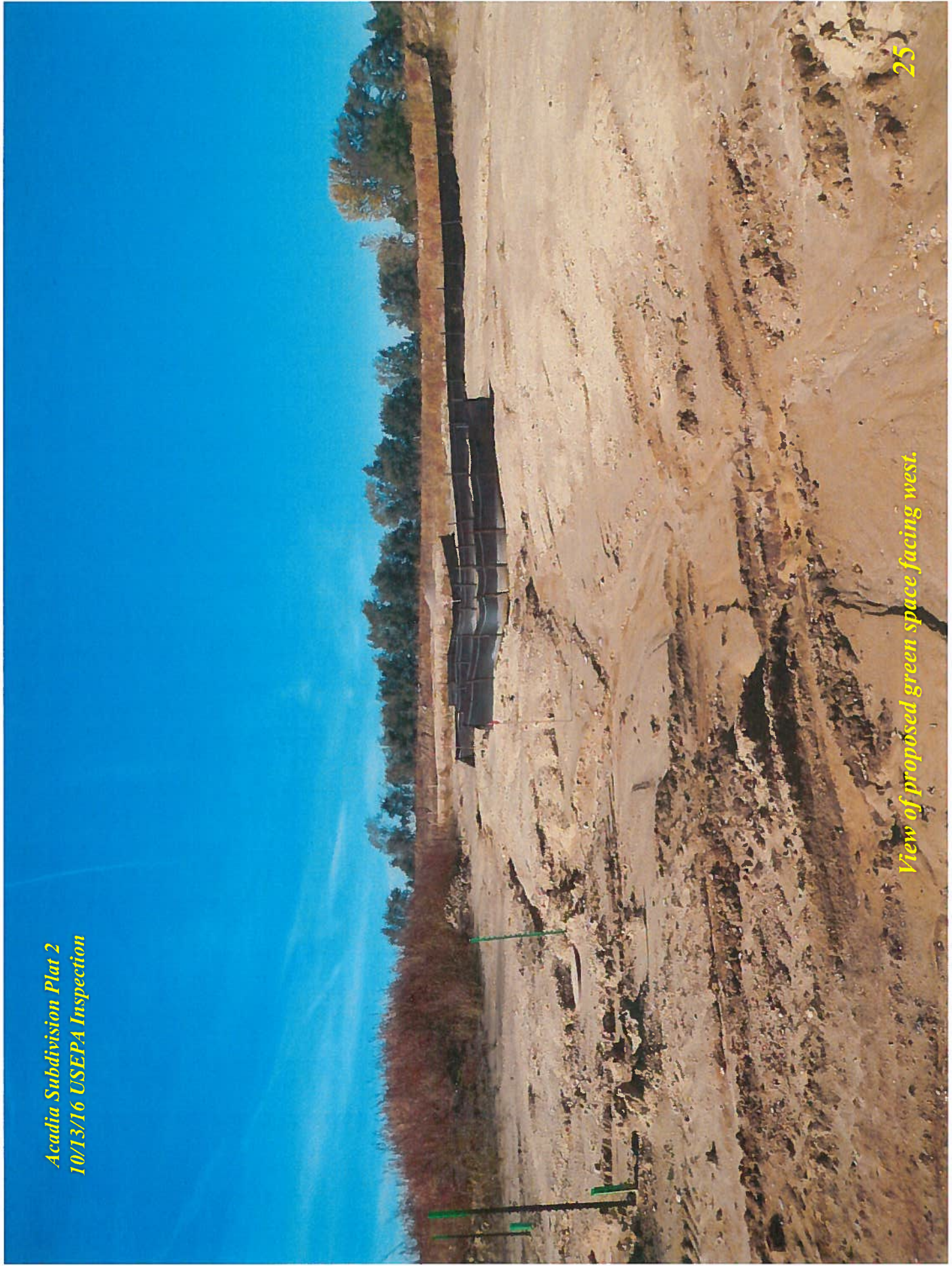
View of discharge pipe from Outfall 5 facing east.

Acadia State Park
10/13/16 N.E.N. Inspection

Sediment

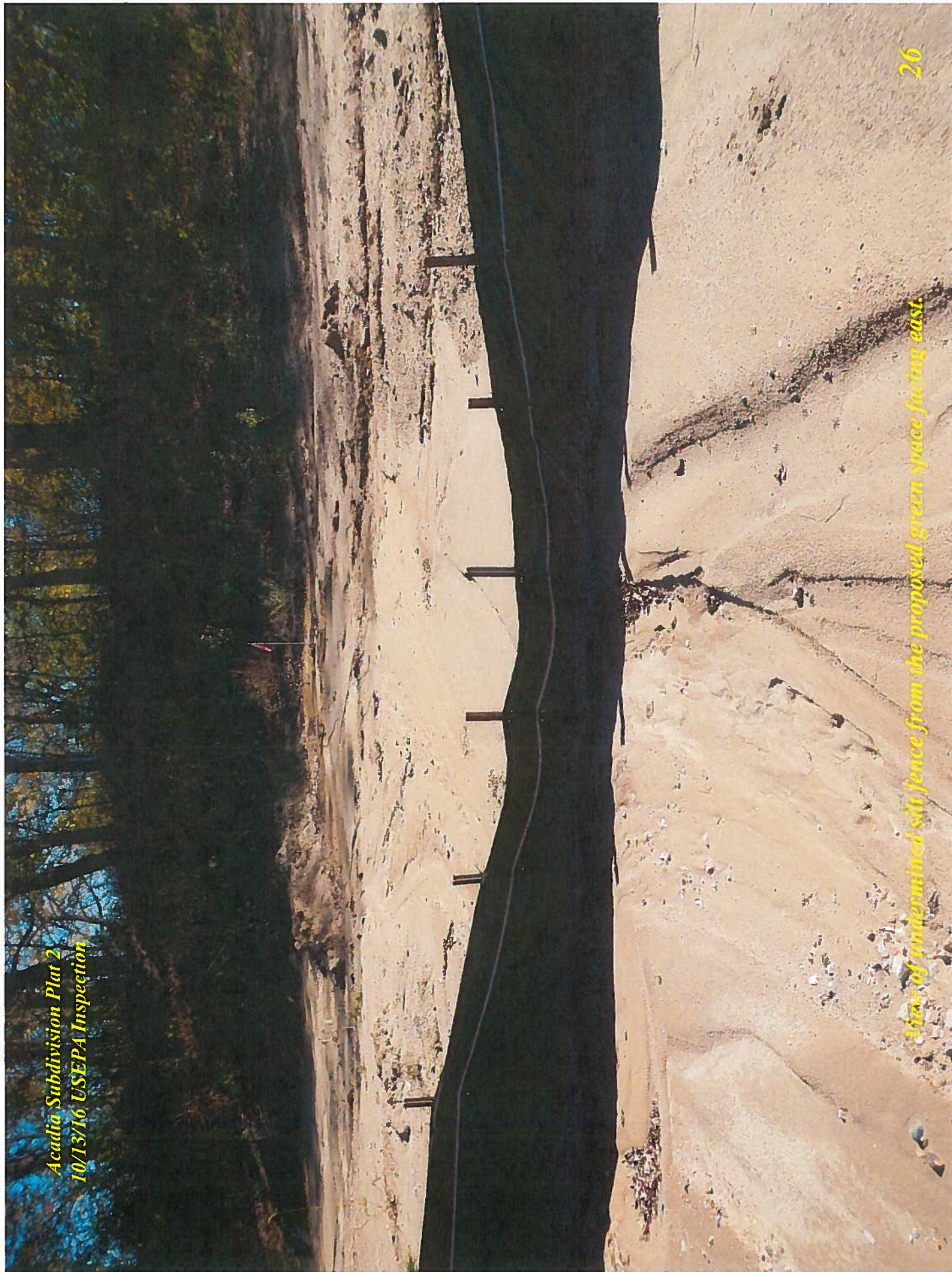
View of discharge path from Outfall facing east

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of proposed green space facing west.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of undermined silt fence from the proposed green space facing east.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

View of silt fence down gradient of proposed green space filling cavity full of sediment.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of silt fence downgradient of proposed green space (facing east) full of sediment.

Aradia Subdivision Plot 2
10/13/16 USEPA Inspection

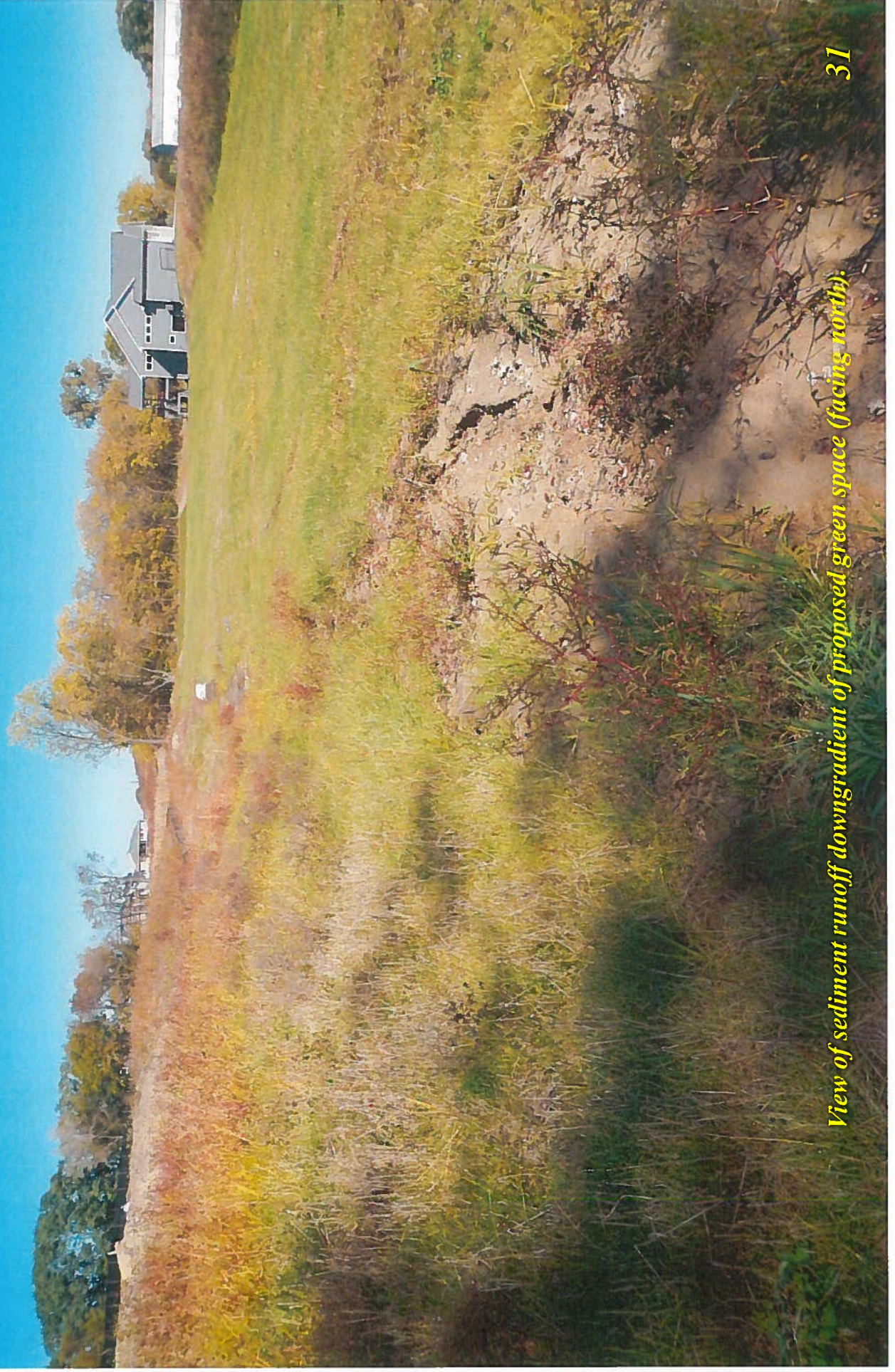
View of silt fence downgradient of proposed gravel space (facing east) full of sediment.

Acadia Submittal Review Plan -
10/13/16 USER Inspection

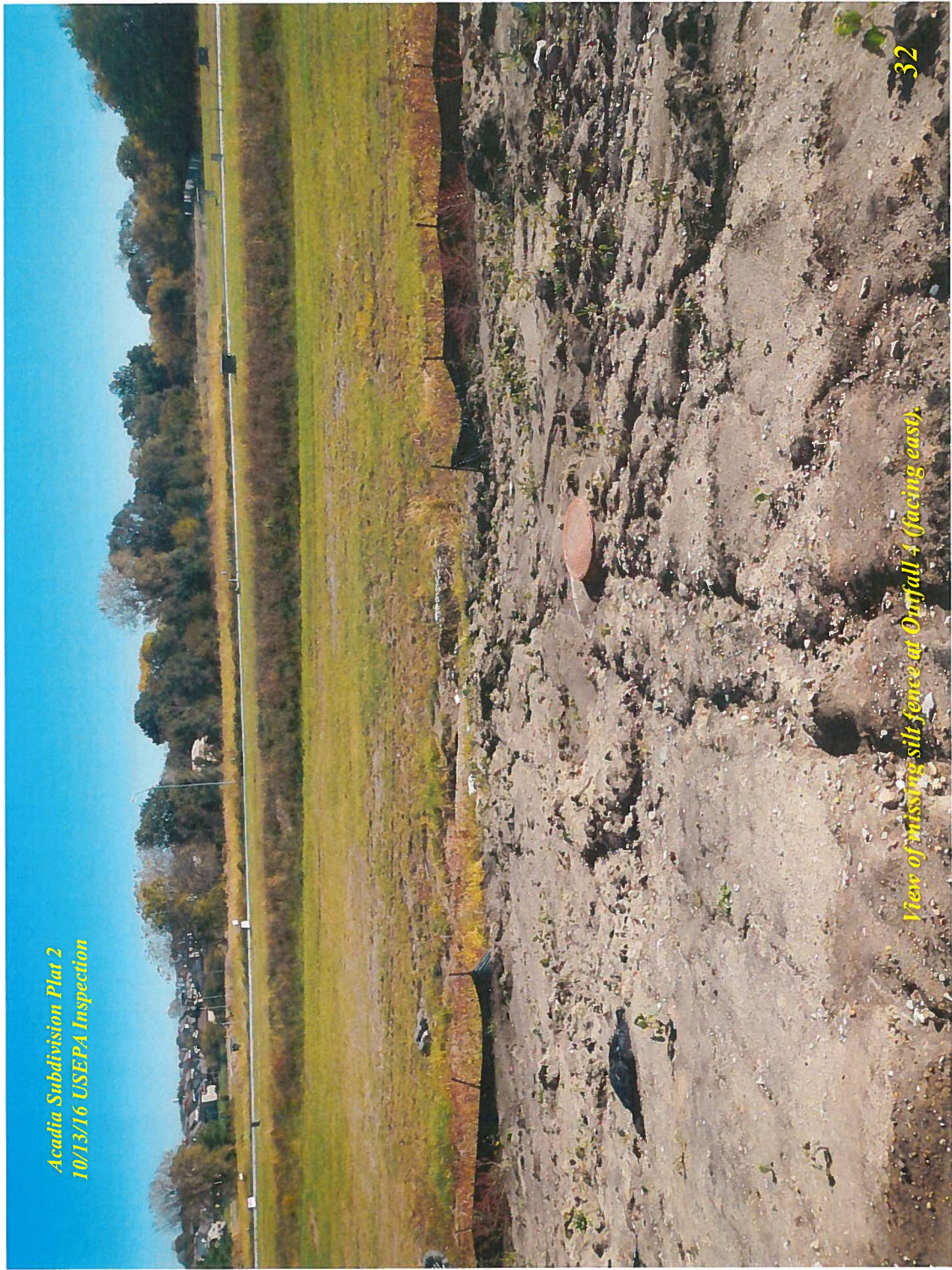


View of silt fence down gradient of proposed green space (facing south) full of sediment.

*Acadia Subdivision Plot 2
10/13/16 USEPA Inspection*



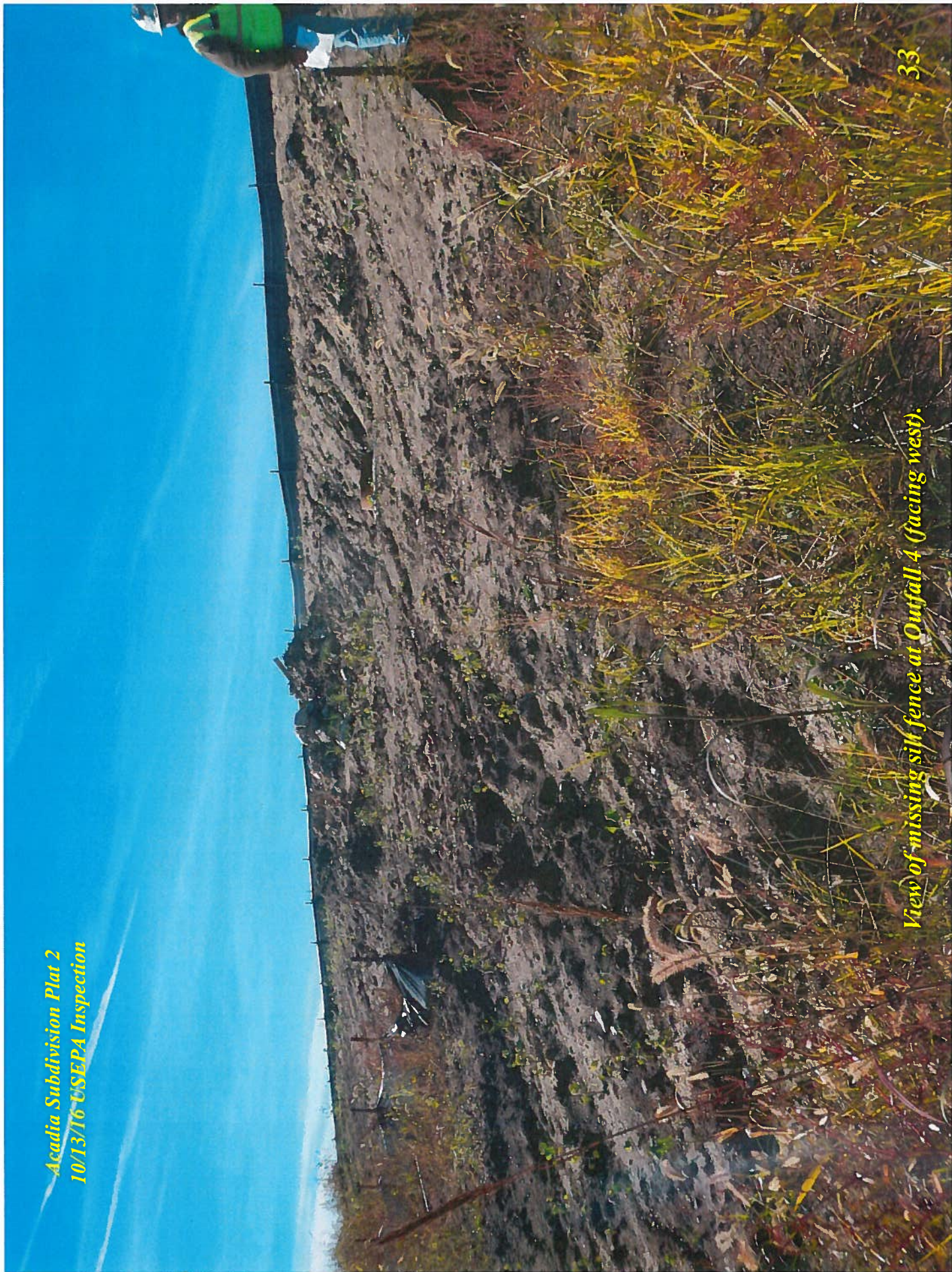
View of sediment runoff downgradient of proposed green space (facing north).



View of missing silt fence at Onfall 4 (facing east).

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

View of missing silt fence at Outfall 4 (facing west).



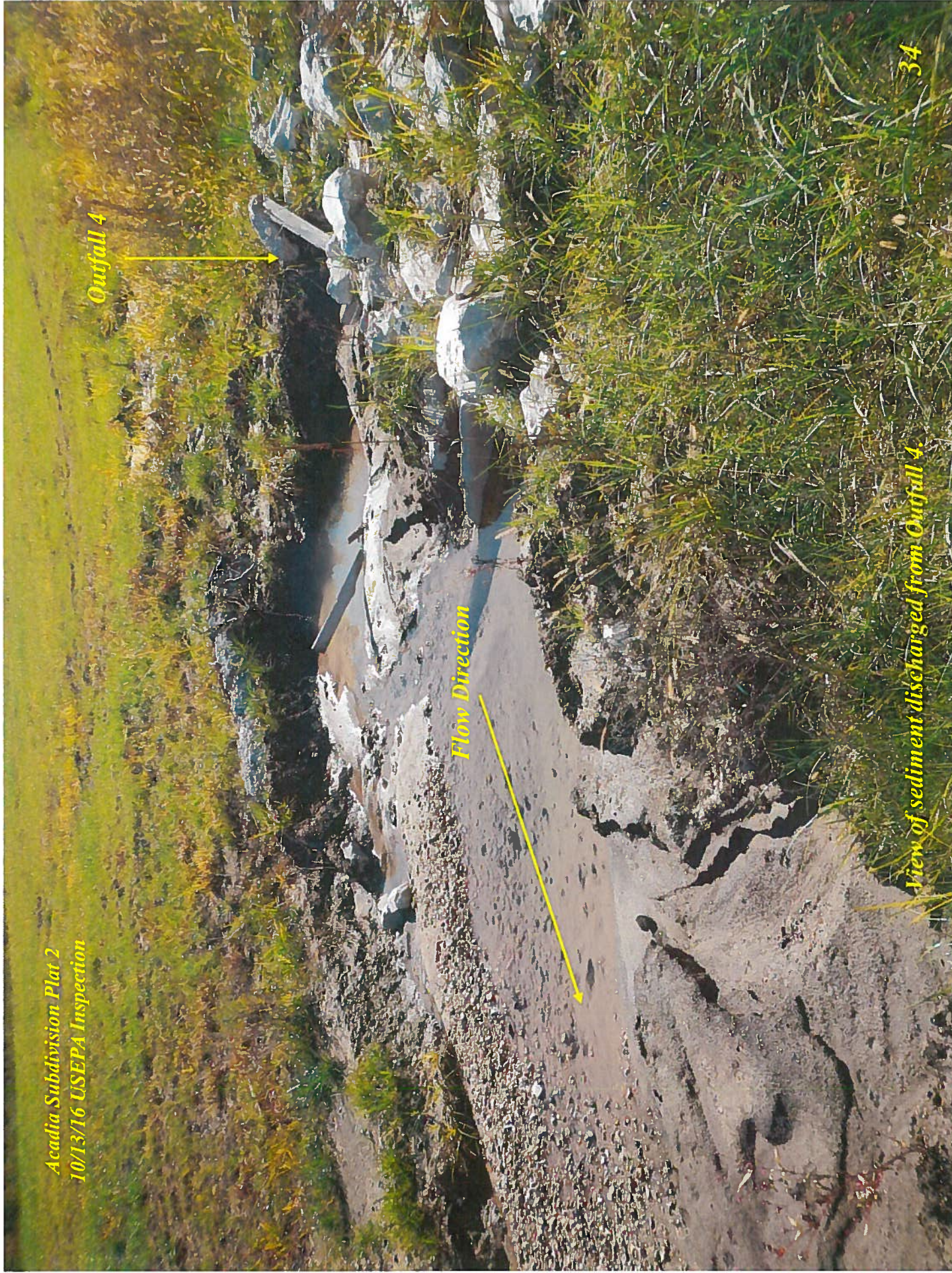
Acadia Subdivision Plat 2
10/13/16 USEPA Inspection

Outfall 4

Flow Direction

View of sediment discharged from Outfall 4.

34





View of sediment discharged from Outfall 4 (facing north towards tributary to Walnut Creek).

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of full silt fence upgradient of the culvert from Outfall 4 (facing east).

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of inlet structure where discharge from Outfall 4 flows underground.

Acadia Subdivision Plat 2
10/13/16 USEPA Inspection

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View of first of three inlet structures without controls on 161st Court which discharges to Outfall 4.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

*View of second of three inlet structures without controls on 161st Court which
discharges to Outfall 4.*



*View of third of three inlet structures without controls on 161st Court which
discharges to Outfall 4.*

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of Basin 3A facing east.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



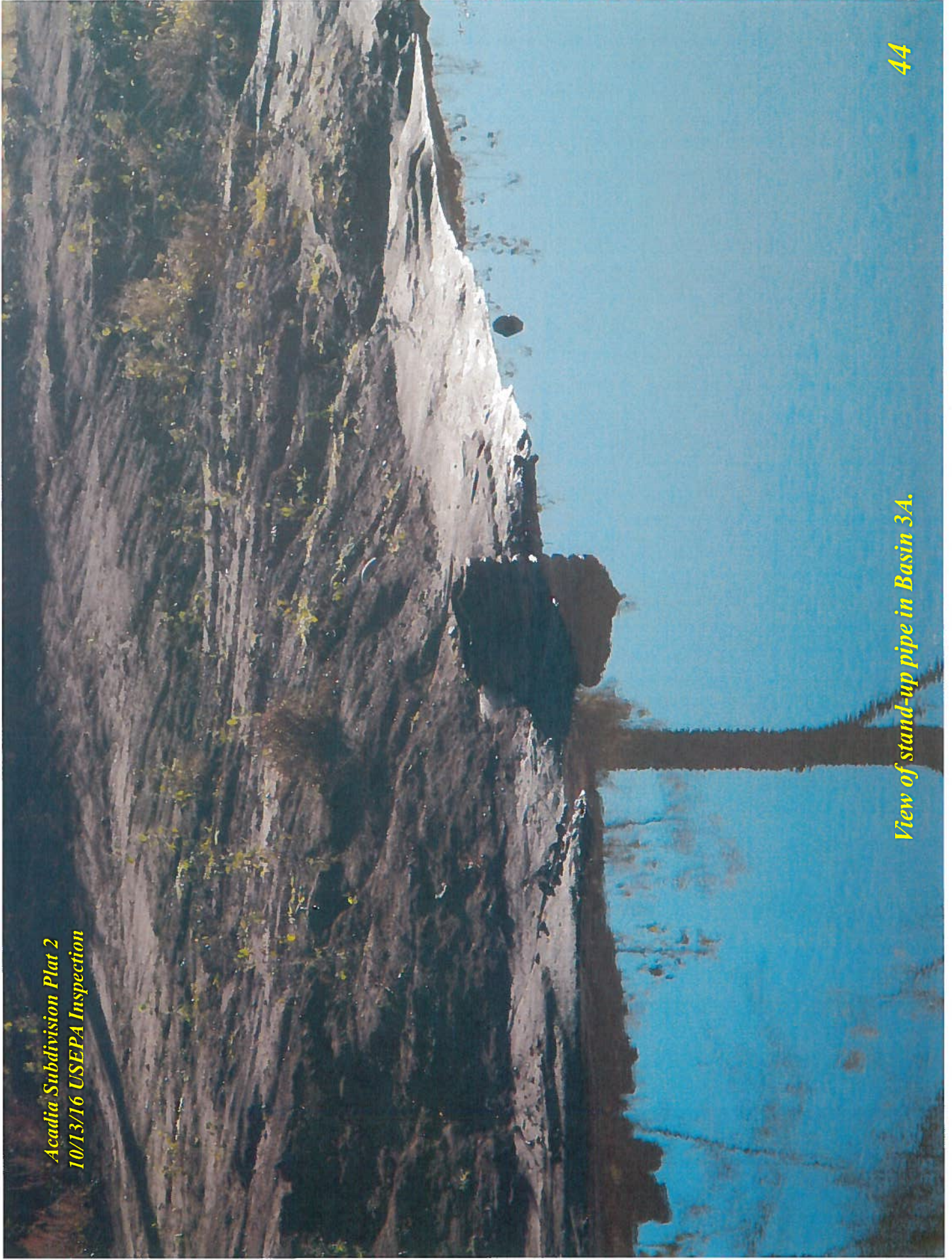
View of Basin 1A facing north.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of inlet to Basin 3A.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of stand-up pipe in Basin 3A.

*Acadia Subdivision Plot 2
10/13/16 USEPA Inspection*

View of the interior of stand-up pipe in Basin 3A.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



*View of undermined silt fence along east side of site (south of Basin 3A)
facing south.*

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

*View of damaged silt fence along east side of site (south of Basin 34) facing
southeast*

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of eroded path along the east side of Basin 3A (facing north).

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

Flow Direction

View of eroded path along the east side of Basin 3A (facing south).



Acadia Subdivision Plat 2
10/13/16 USEPA Inspection

Basin 3A

Flow Direction

View of where eroded path enters Basin 3A.

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Acadia Subdivision Plat 2
10/13/16 USEPA Inspection

Gravel Outfall 3 (facing southwest).

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Washita River Commission, Mar 2
The National SRA Inspection

Flow Direction to
Walnut Creek

View of discharge from Outfall 3 looking south

*Acadia Subdivision Plat 2
10/13/16 LSEPA Inspection*

Basin 3A

View of damaged silt fence to the west of Basin 3A.

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*Acadla Subdivision Plat 2
10/13/16 USEPA Inspection*

View of silt fence on the south side of Basin 3A



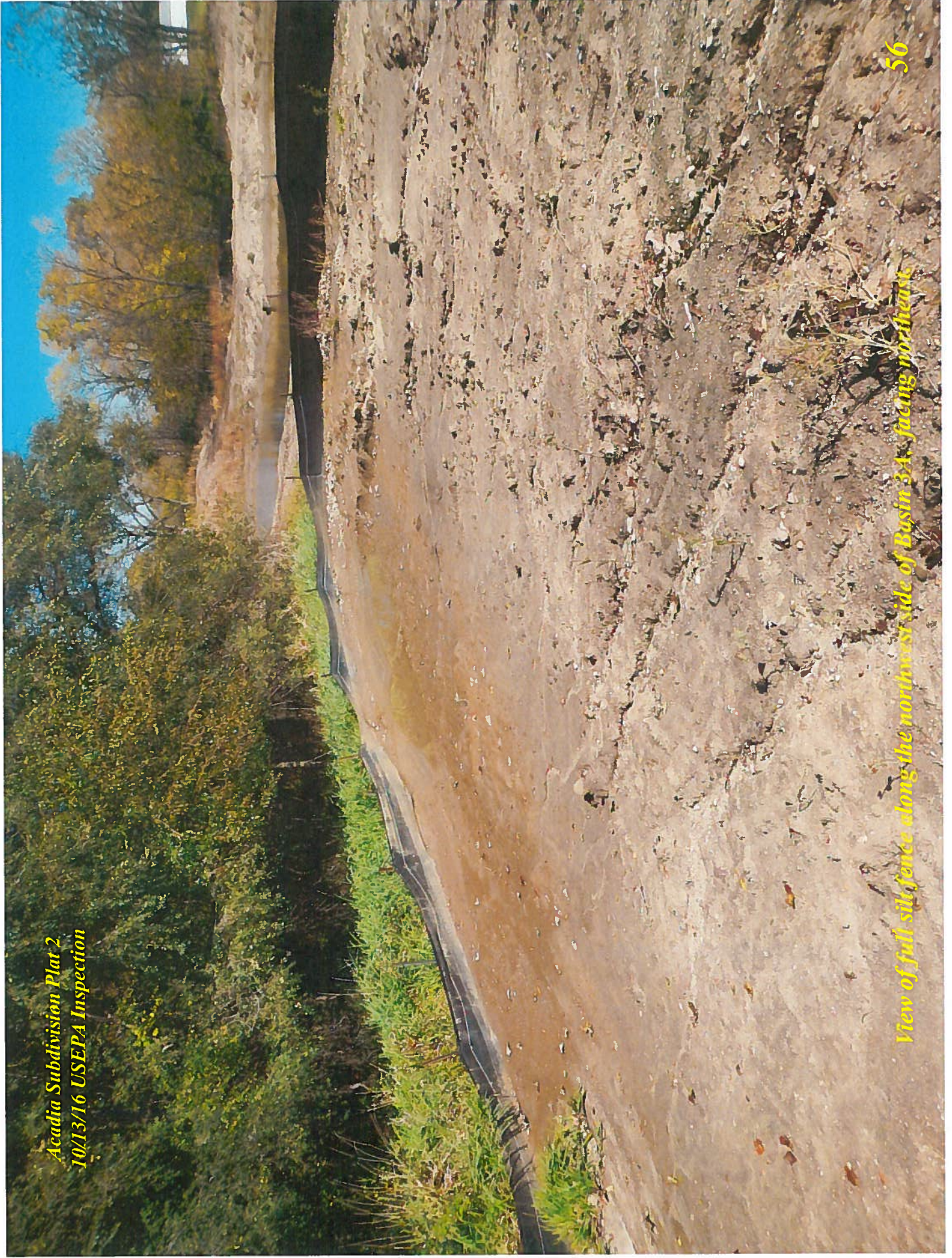
*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

View of site fence on the south side of Basin 3A.

55

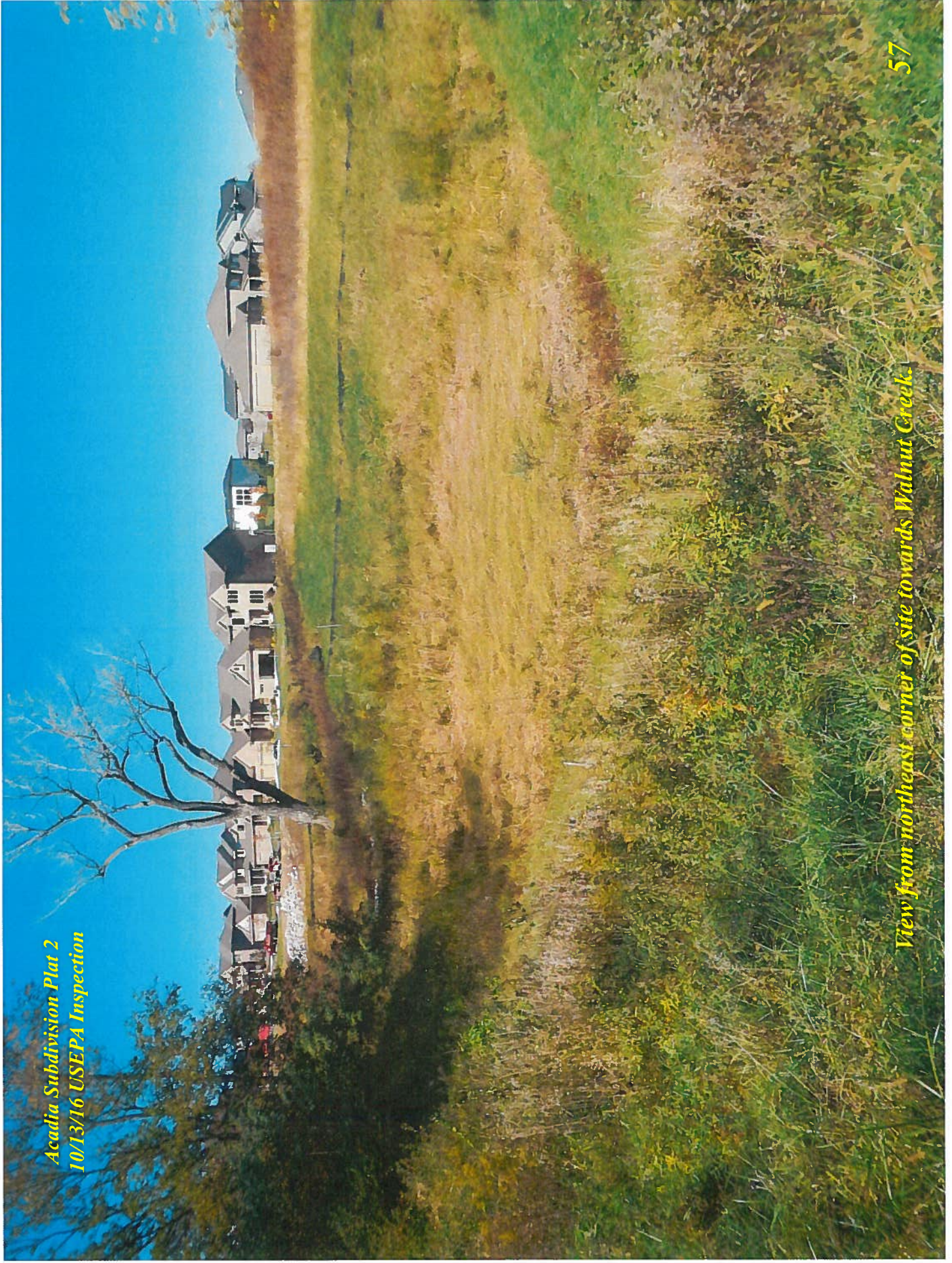


*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



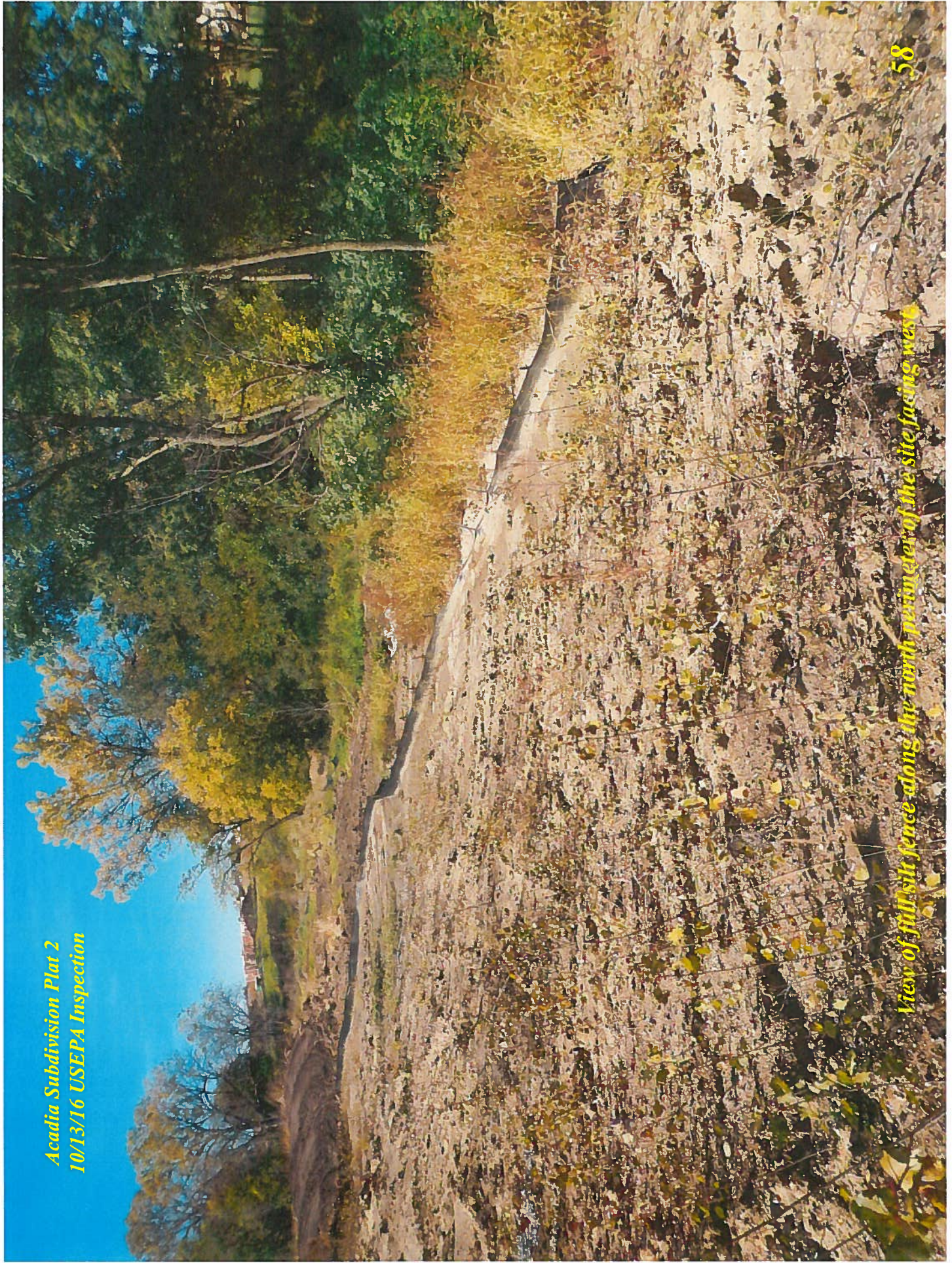
View of full silk fence along the northwest side of Basin 3A, facing northeast

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View from northeast corner of site towards Walnut Creek.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of full silt fence along the north perimeter of the site facing west

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

View of full silt fence along the north perimeter of the site

Acadia Subdivision Plat 2
10/13/16 USEPA Inspection

View of damaged site fence along north perimeter of the site

*Acalia Subdivision Plat 2
10/13/16 USEPA Inspection*

View of damaged silt fence along north perimeter of the site.

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Acadia Subdivision Plat 2
10/13/16 USEPA Inspection

View of damaged silt fence along north perimeter of the site.



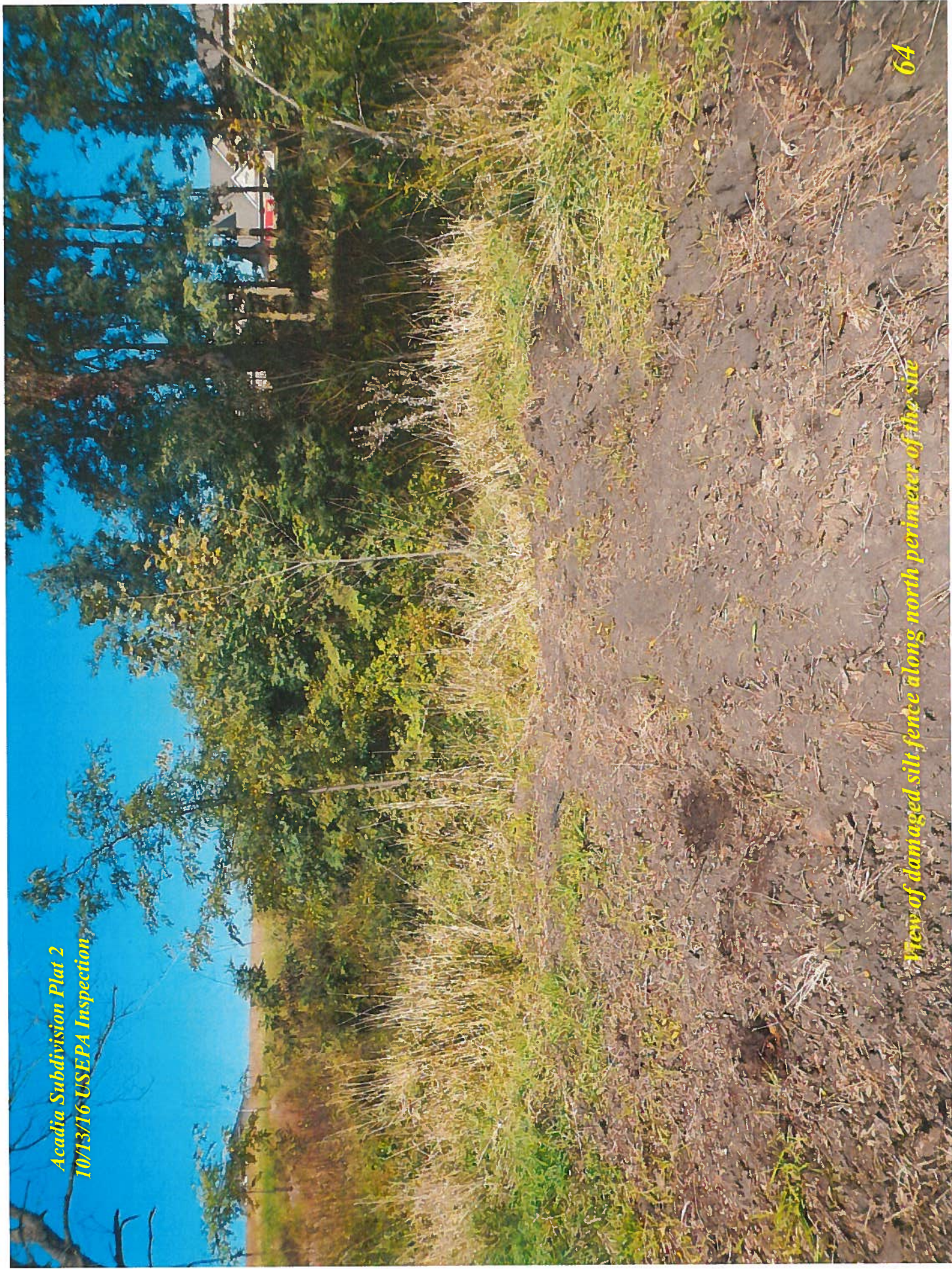
*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

63

View of damaged silt fence along north perimeter of the site.



*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of damaged silt fence along north perimeter of the site

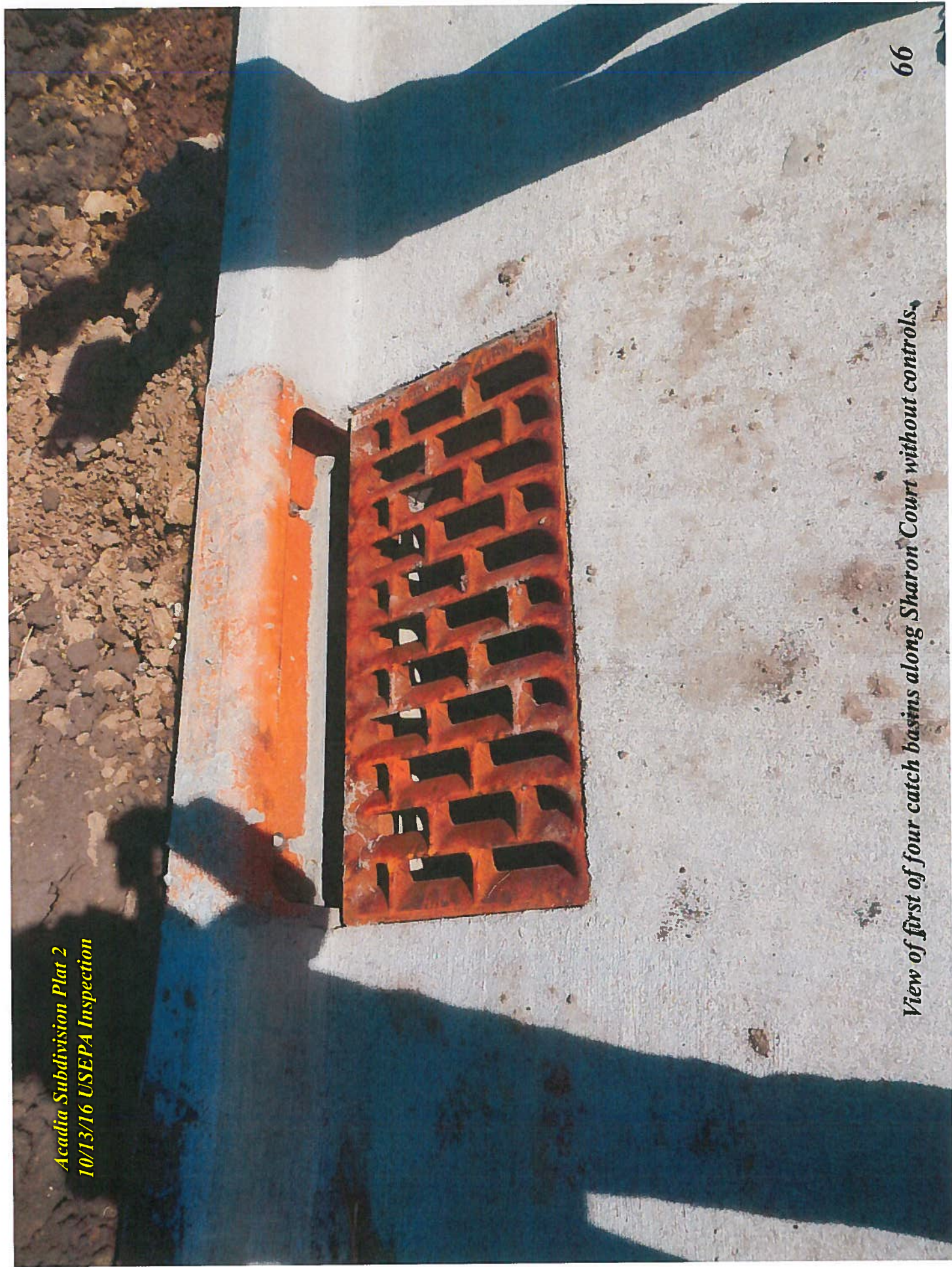
*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

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View of damaged silt fence along north perimeter of the site.



View of first of four catch basins along Sharon Court without controls.



Acadia Subdivision-Plot 2
10/13/16 USEPA Inspection



View of second of four catch basins along Station Court without contents

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



of third of four catch basins along Sharon Court without controls.

*Acadia Subdivision-Flat 2
10/13/16 USEPA-Inspection*



View of fourth of four catch basins along Sharon Court without controls.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

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View of Outfall 2:



Arudia Subdivision Plot 2
10/13/16 USEPA Inspection

View of tributary to Walnut Creek downstream of Outfall 2.



View of swale along the west side of the site which flows to Outfall 1.

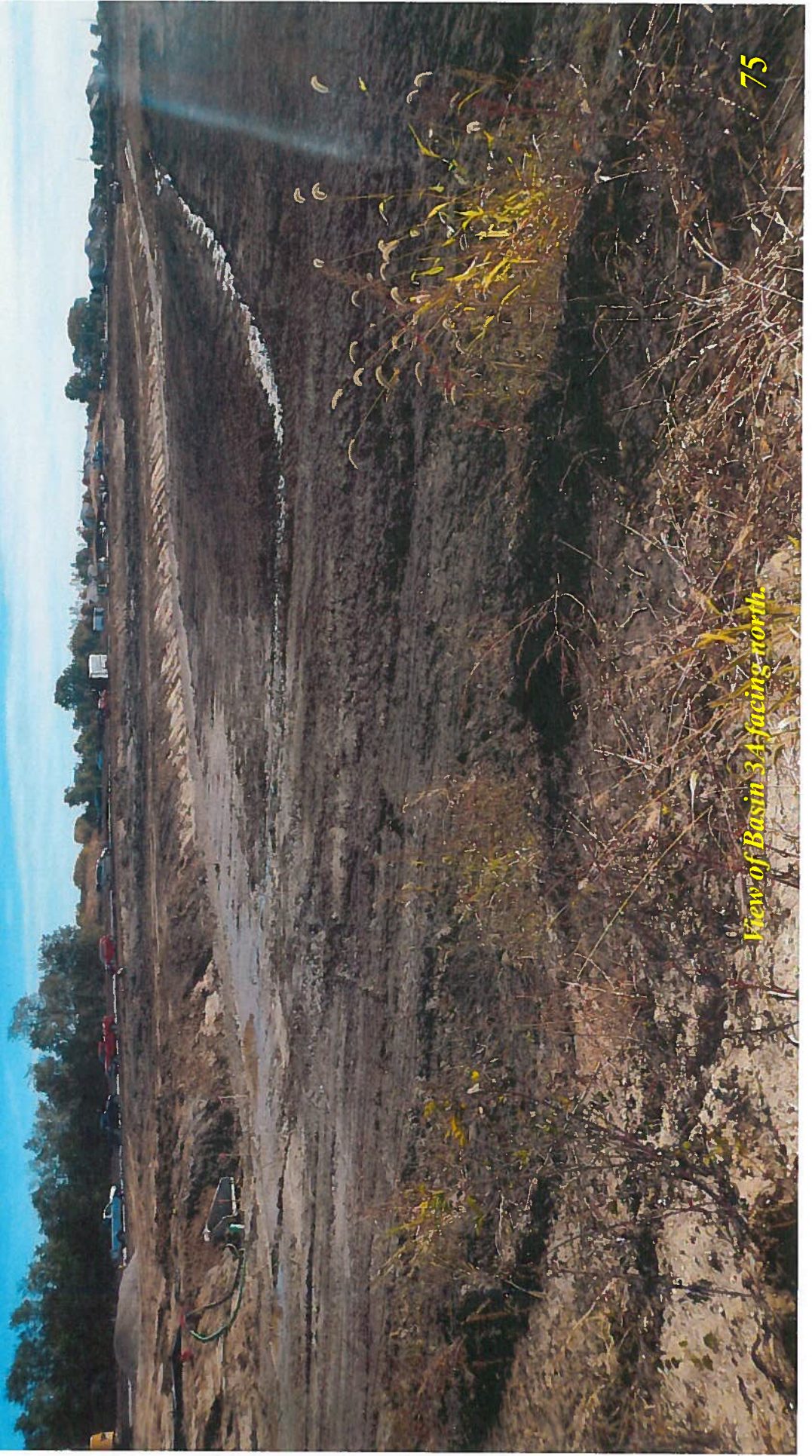
Acadia Subdivision Plot 2
10/13/16 ESEPA Inspection

View of Barugel® on Oakwood Drive.

Acadia Subdivision Plat 2
10/13/16 USEPA Inspection

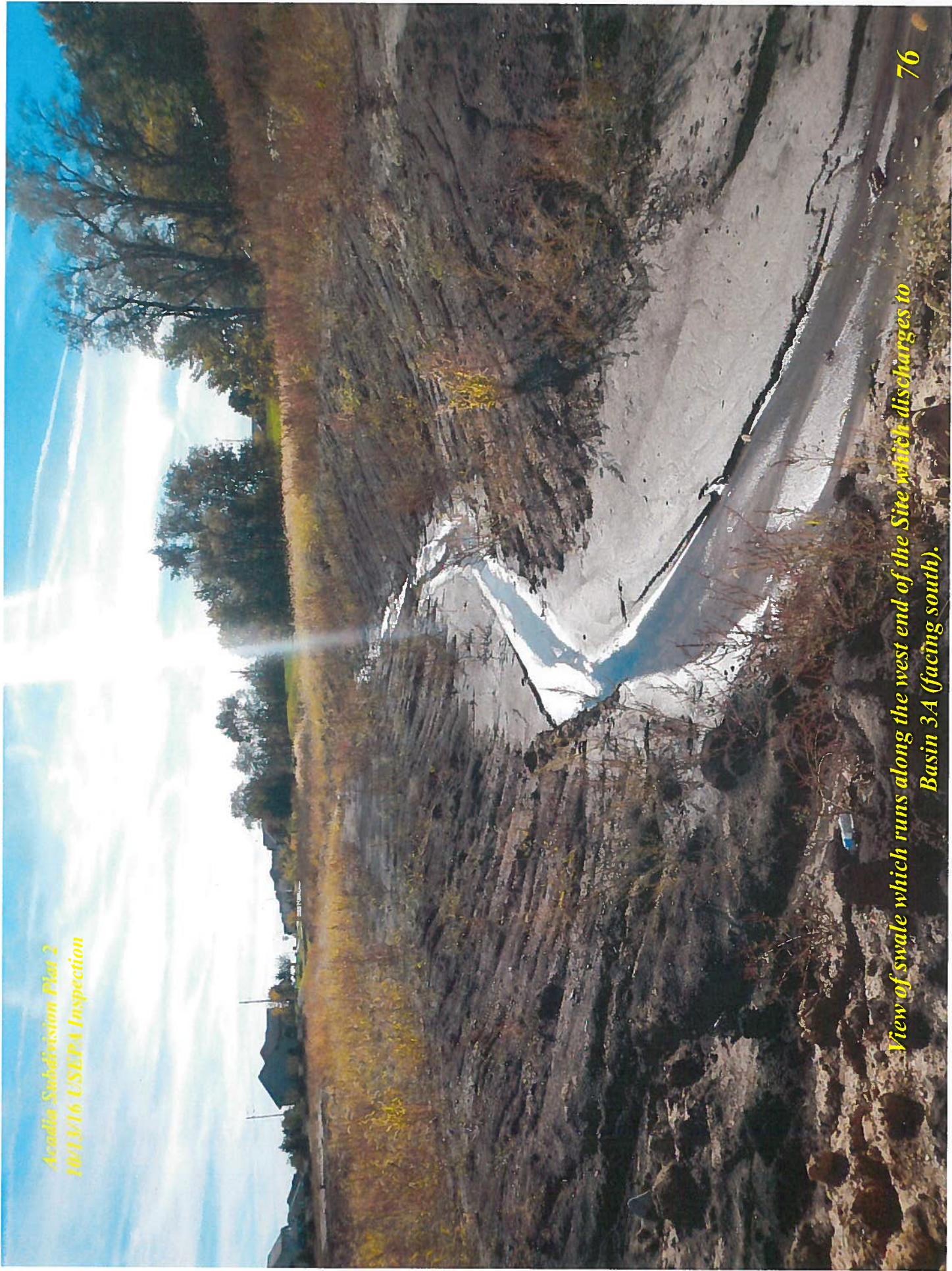
View of Boregel® to the south of Oakwood Drive.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of Basin 3A facing north.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



*View of swale which runs along the west end of the Site which discharges to
Basin 3A (facing south).*



*View of swale which runs along the west end of the Site which discharges to
Basin 34 (facing north). Evidence of concrete wash out.*

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of outlet from Basin 3A. Standup pipe has been removed.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*

*View of discharge from Basin 3A. Discharge flows through vegetated area
prior to entering Basin 3B.*



*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of Site from entrance facing north.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of full silt fence where outfalls discharge into vegetated area facing northeast.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



*View of inlet structure from south end of property facing north (ultimately
leads to Basin 3A)*

Acadia Substation, Page 2

10/11/16 USEPA Inspection

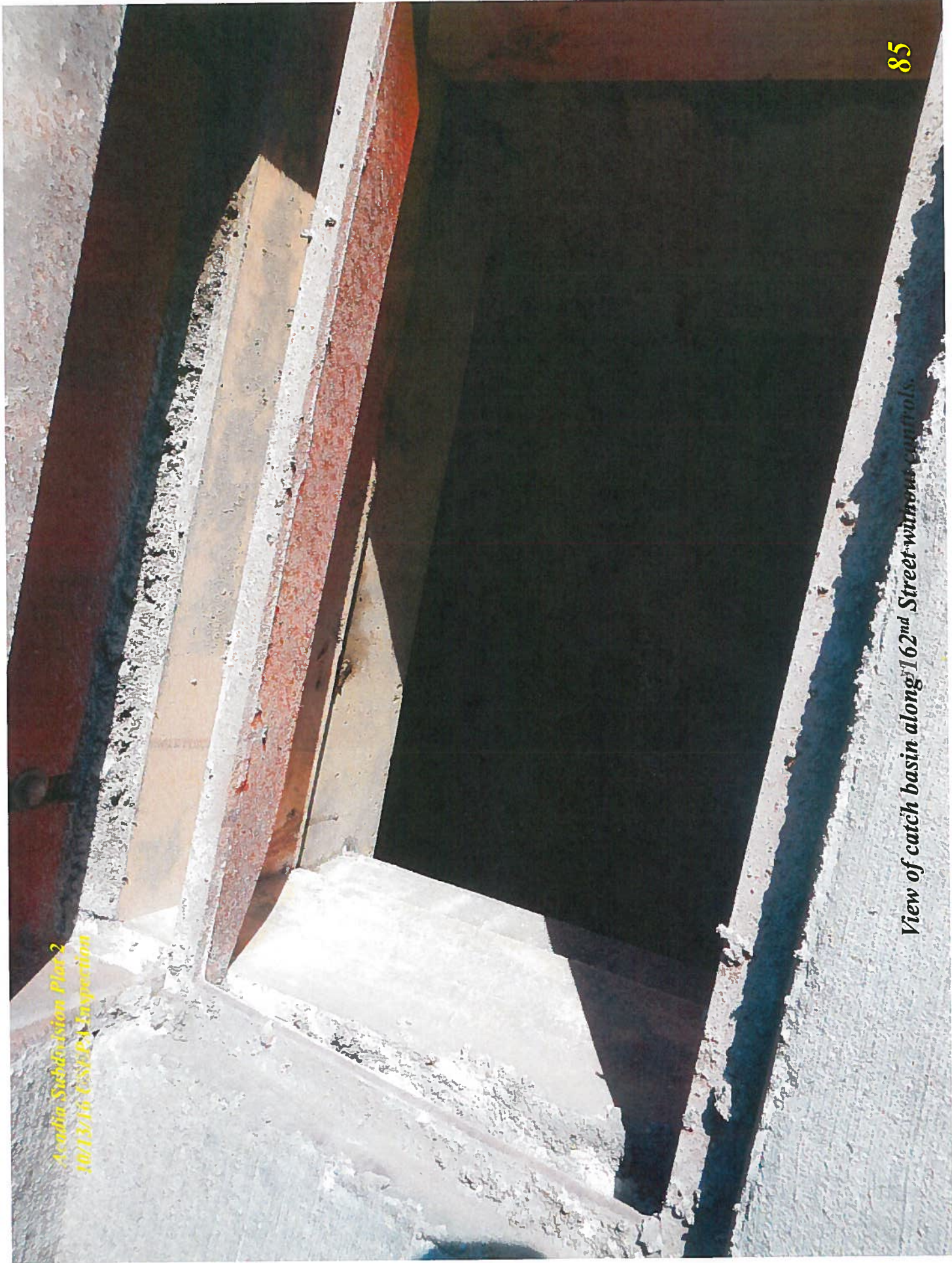
WARNING TO PUBLIC
DO NOT ENTER



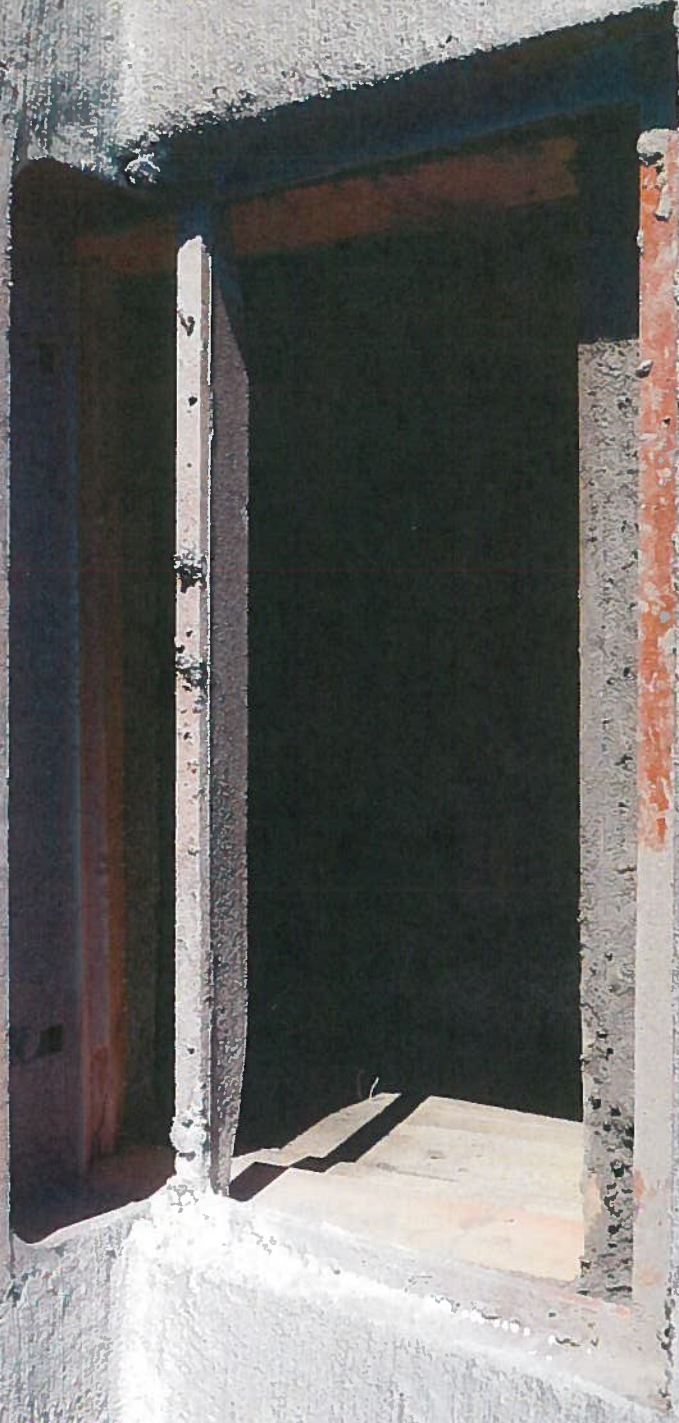
View of catch basin along 162nd Street without controls.

*Acadia Subdivision Plot 2
10/13/16 CSEOP Inspection*

View of catch basin along 162nd Street without controls.



*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of catch basin along 162nd Street without controls.

Acadia Subdivision Plat 2
10/13/16 USEPA Inspection

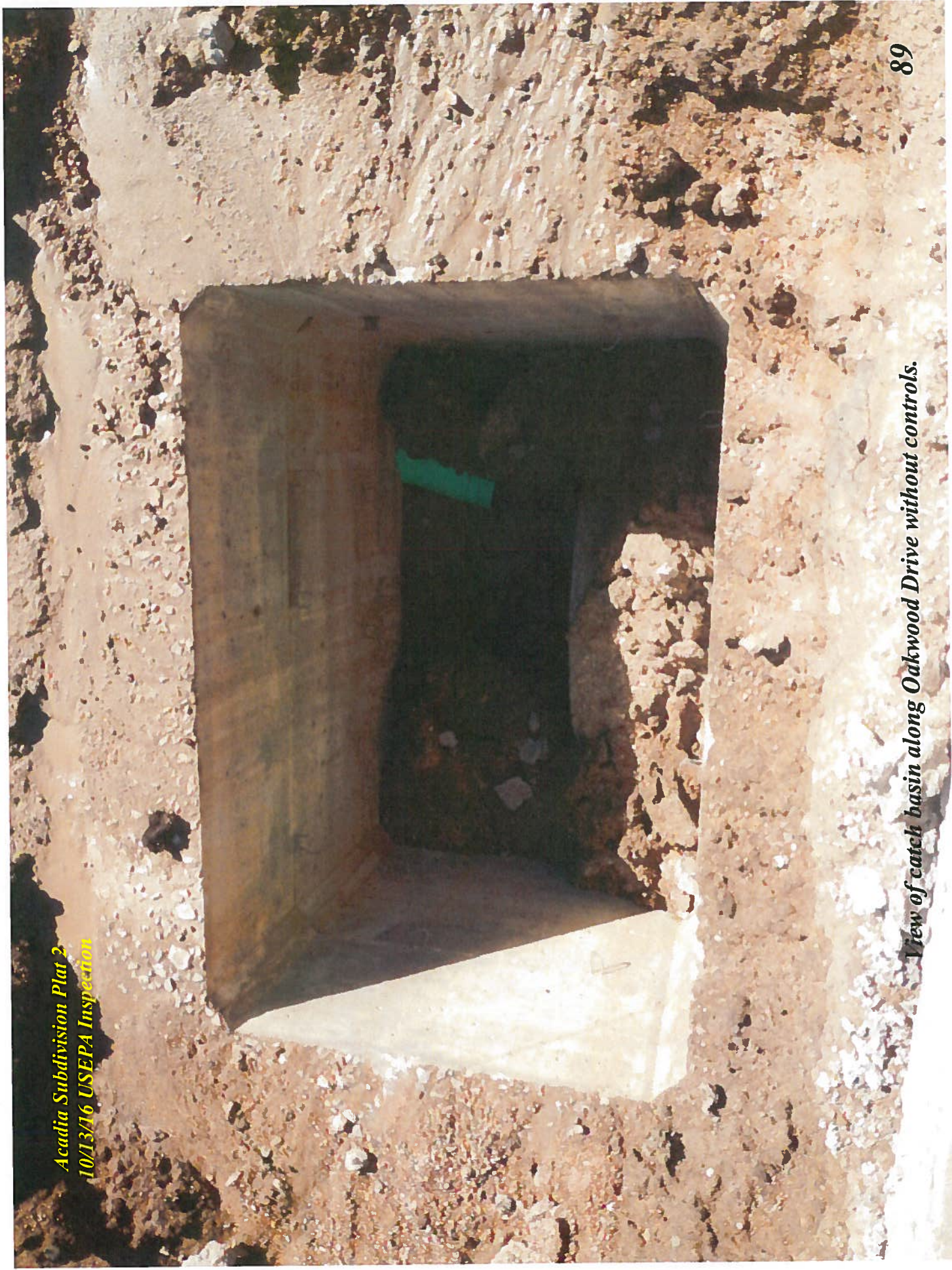
DO NOT
DRAIN TO FRESH WATER

View of catch basin along 162nd Street without controls.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of catch basin along Oakwood Drive without controls.



View of catch basin along Oakwood Drive without controls.

*Acadia Subdivision Plot 2
10/13/16 USEPA Inspection*

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View of storm sewer installation along Goodman Drive facing west.



*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of road poured week of October 14, 2016.

*Arcadia Subdivision Plot 2
10/13/16 USEPA Inspection*



View of offsite tracking along Meredith Road (taken October 12, 2016) facing west.

Map Redrawn 8/5/16

4-13-16 - Mass Grading
4-20-16 - Basin Excavation
6-9-16 - NE Basin Grading Complete
6-16-16 - San Crews Started
6-16-16 - Topsoil Respread Started - Basins
6-23-16 - Storm Sewer Placement Started
6-30-16 - NE Basin outlet and S.P. placed
7-28-16 - NW Basin outlet and S.P. placed
8-4-16 - E. central Basin outlet started
10-6-16 - Topsoil Respread Started

View of basin construction schedule.

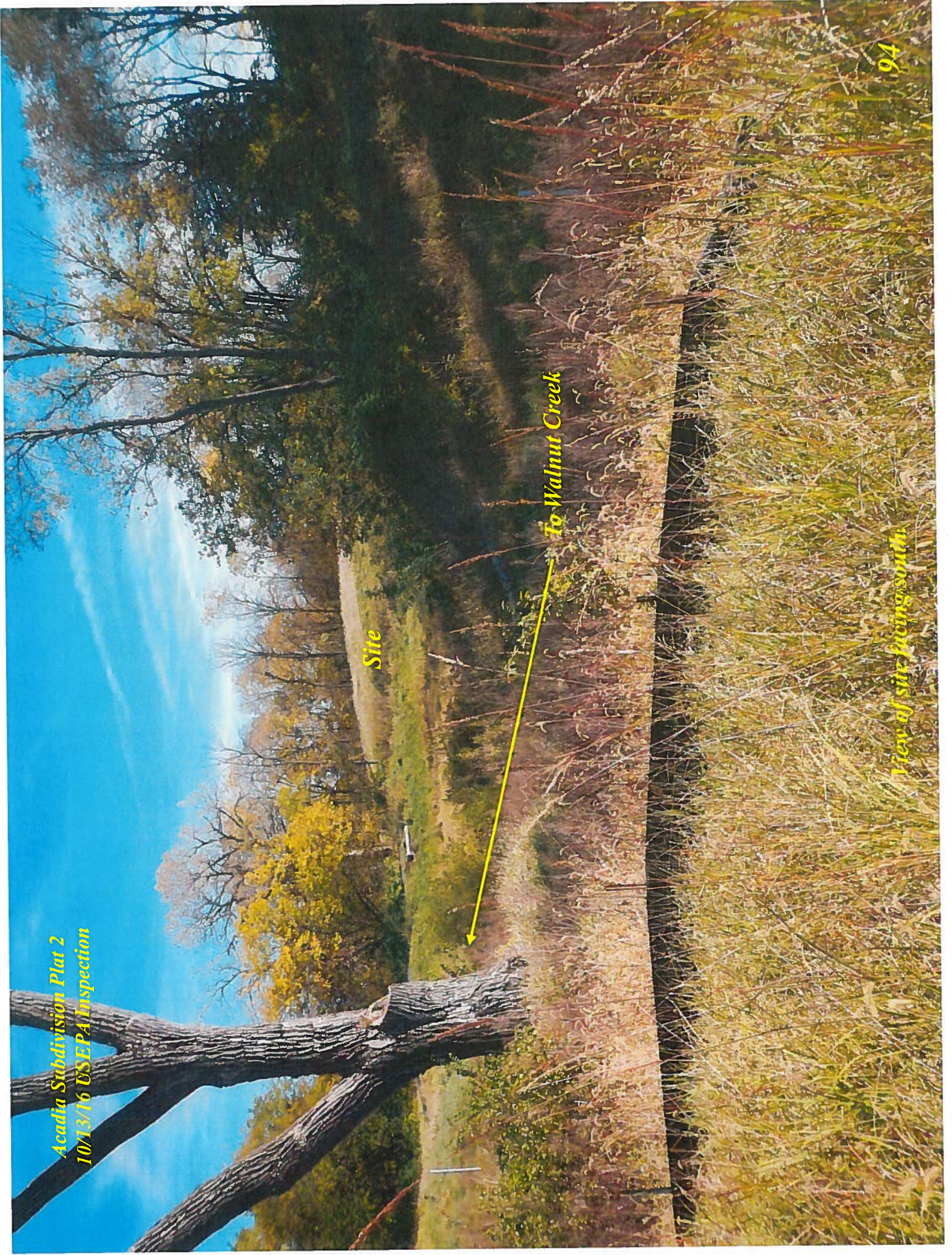
Acadia Subdivision Plat 2
10/13/16 USEPA Inspection

Site

To Walnut Creek

View of site facing south

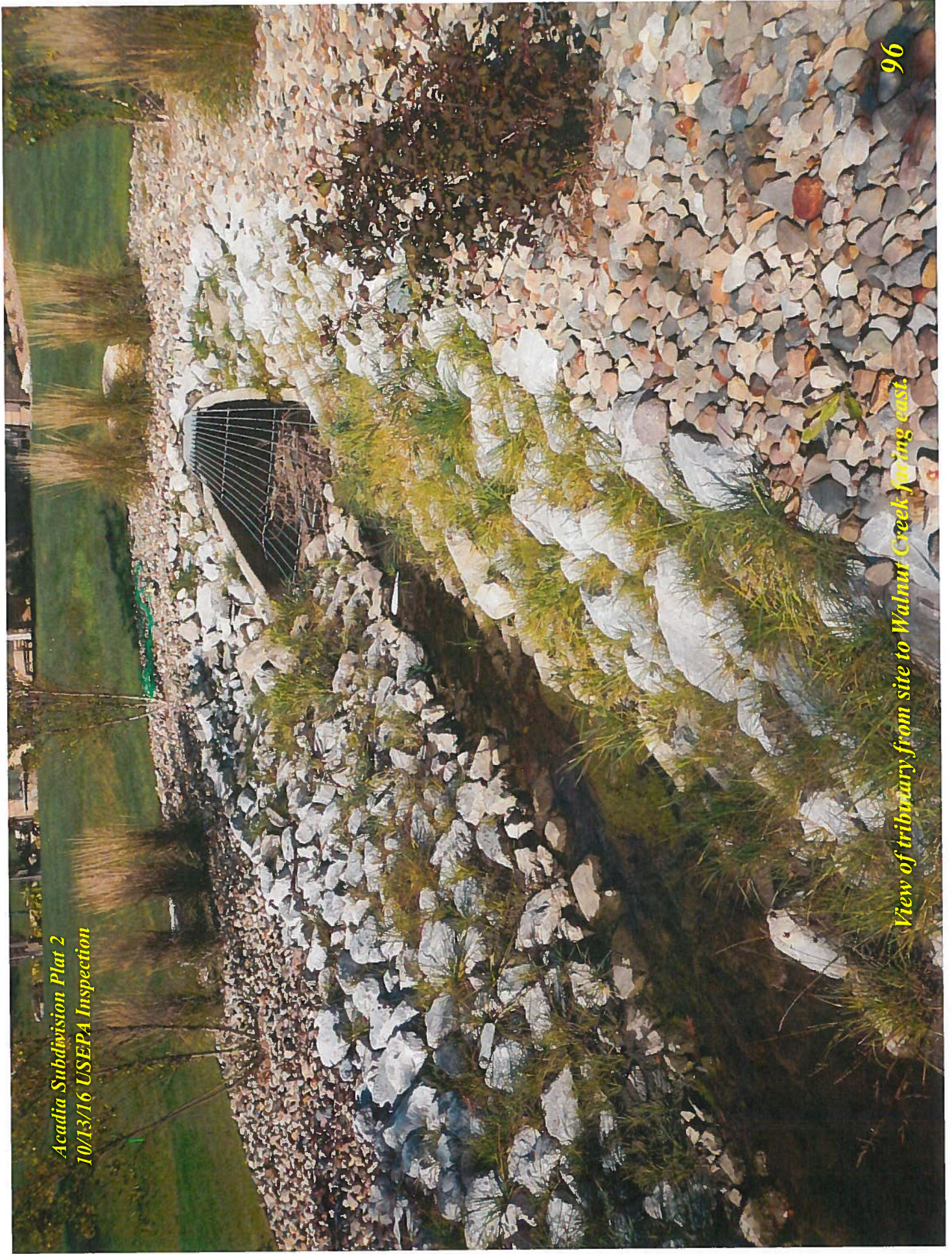
94



Acadia Subdivision Plat 2
10/13/16 USEPA Inspection

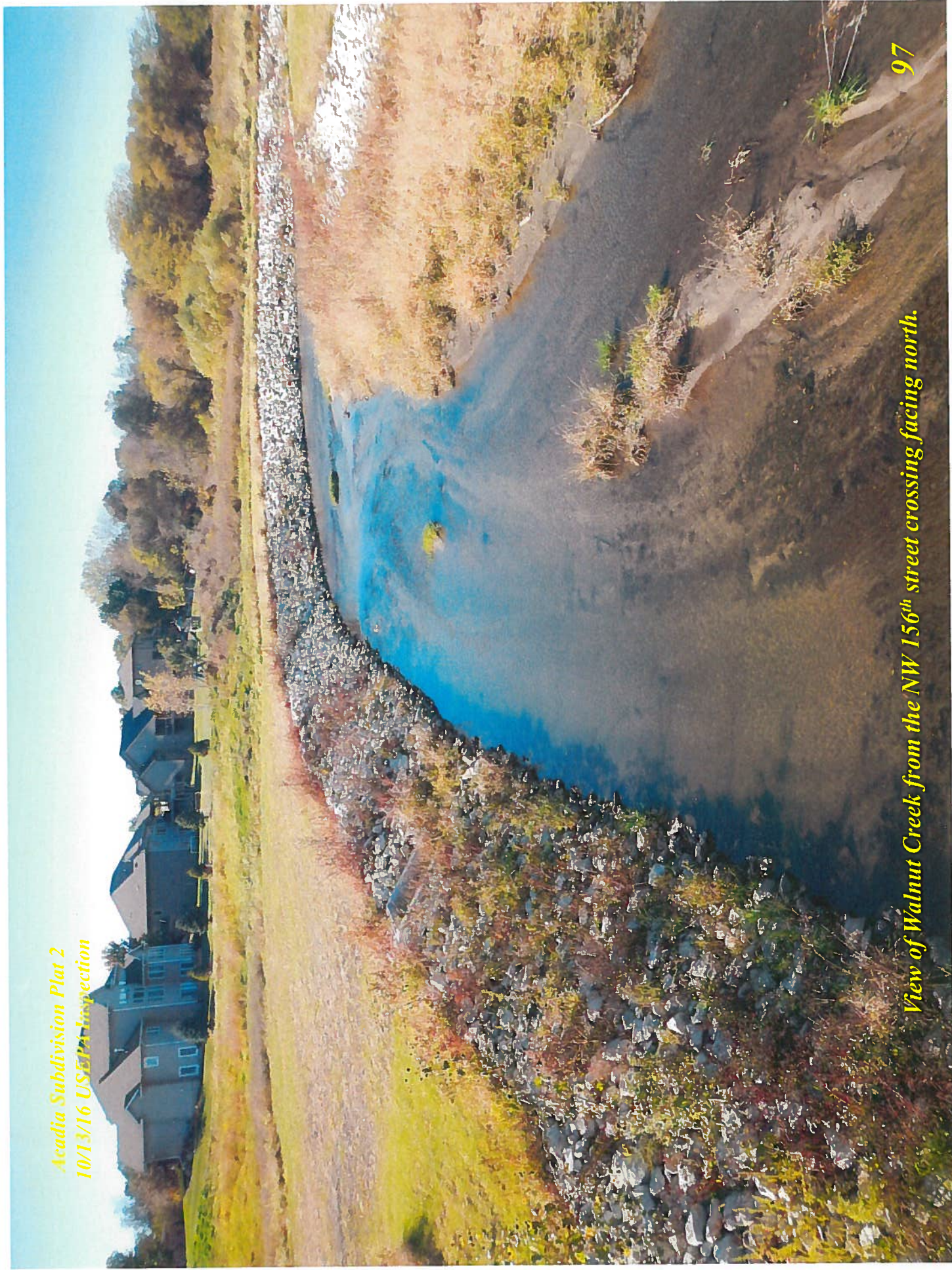
View of tributary from site to Walnut Creek facing west.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of tributary from site to Walnut Creek facing east.

*Acadia Subdivision Plat 2
10/13/16 USEPA Inspection*



View of Walnut Creek from the NW 156th street crossing facing north.

ATTACHMENT 3

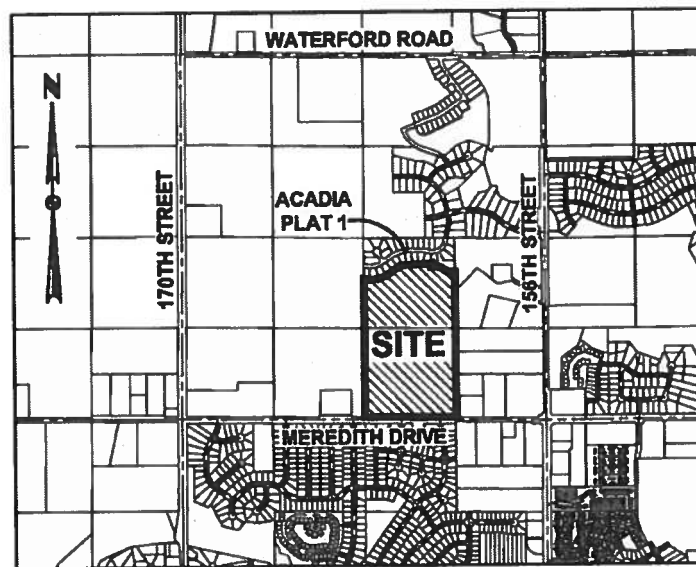
STORM WATER POLLUTION PREVENTION PLAN

FOR

ACADIA PLAT 2

IN

URBANDALE, IOWA



VICINITY MAP (N.T.S.)

March 21, 2016

NOTE: It shall be the responsibility of the OWNER and an entity hired by the OWNER to make sure the plan is complete, updated and placed on the construction site at all times from the date construction activities begin to the date of final stabilization. All contractors working onsite shall be supplied a copy of the SWPPP and must sign the certification statement provided. The SWPPP must be periodically updated to show current erosion control practices. It will be the duty of the OWNER to see that these requirements are met.

ACADIA PLAT 2

URBANDALE, IOWA

SWPPP NARRATIVE 1

- * Owner Certification Statement
- * Site Description/Contact Information
 - * Site Assessment
- * Discharge Point Summary
 - * Scope
- * Urbandale Construction Site Erosion and Sediment Control (COSESCO) Ordinance
 - * Anticipated Sequence of Construction Activities
 - * Erosion and Sediment Controls BMP's
 - * Post-Construction Measures
 - * Inspection and Maintenance Procedures
 - * Good Housekeeping Best Management Practices
 - * Pollutant Spill Prevention and Response Procedures
- * Listing of Potential Pollutants Related to Construction Activities
 - * Non-storm Water Discharges

PERMITS AND FORMS 2

- * Notice of Intent Application
- * Public Notices of Storm Water Discharge
 - * NPDES General Permit No. 2
- * IDNR Notice of Discontinuation Form

CONSTRUCTION SCHEDULE & CERTIFICATION STATEMENTS 3

- * Projected Construction Schedule
 - * Operator's Log
- * Signed Contractor Certification Statements

CURRENT EROSION AND SEDIMENT CONTROL MAPS 4

- * Aerial Map
- * Pre-Construction Site Map
- * Erosion and Sediment Control Plan
 - * Concrete Washout Detail
 - * Preliminary Plat

INSPECTOR QUALIFICATIONS, REPORT & PHOTOS 5

- * Inspector Qualifications
- * Stormwater Pollution Prevention Training Log
 - * Corrective Action Log
 - * Inspection Reports
- * Grading & Stabilization Log
 - * Site Photos

MISCELLANEOUS ITEMS 6

- * US Fish & Wildlife Service Potential Endangered Species List Polk County
 - * USGS Map
 - * Soil Survey Map
- * EPA Watershed Fact Sheet
- * IDNR: Guidelines for Reporting Hazardous Conditions

CORRESPONDANCE 7

- * Transferred Property Log
- * Corrective Action Notices
- * Regulatory Correspondance

SWPPP AMENDMENTS 8

- * SWPPP Amendment Log
- * Outdated SWPPP Maps



OWNER CERTIFICATION STATEMENT
FOR
ACADIA PLAT 2
URBANDALE, IOWA

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signed: _____

Title: _____

Date: _____

SITE DESCRIPTION/CONTACT INFORMATION:

PROJECT NAME:	Acadia Plat 2
PROJECT LOCATION:	Northwest of the intersection of Meredith Drive and 160 th Street Urbandale, IA
OWNER/DEVELOPER INFORMATION:	Accurate Land CO, LLC Contact: Kevin Johnson 9500 University Ave, Suite 2112 West Des Moines, IA 50266
SITE SUPERVISOR CONTACT INFORMATION:	
SWPPP MONITORING CONTACT INFORMATION:	
SWPPP PREPARER CONTACT INFORMATION:	Civil Design Advantage, LLC Contact: Erin Ollendike 3405 SE Crossroads Drive, Suite G Grimes, Iowa 50111 Phone: (515) 369-4400 Cell: (515) 208-9188
CITY INSPECTOR CONTACT INFORMATION:	City of Urbandale 3600 86th Street Urbandale, IA 50322 Phone: (515) 278-3900
STATE OF IOWA CONTACT INFORMATION:	Iowa Department of Natural Resources Contact: Joe Griffin – Stormwater Coordinator 502 E 9 th Street Des Moines, IA 50319 Phone: (515) 281-7017
TOTAL AREA OF SITE:	63.01 Acres

<i>DISTURBED AREA:</i>	60.31 Acres
<i>APPROXIMATE DISCHARGE DATE:</i>	
<i>PRE-CONSTRUCTION RUNOFF COEFFICIENT:</i>	0.25
<i>POST-CONSTRUCTION RUNOFF COEFFICIENT:</i>	0.70
<i>CONSTRUCTION ACTIVITY:</i>	Construction of a single family subdivision. Construction activities shall include clearing and grubbing, excavation, topsoil stripping, stockpiling and respread, final grading, construction of temporary exit and staging areas, installation of utilities and roadways, and future home construction.
<i>EXISTING SOIL CLASSIFICATIONS:</i>	Storden Clarion Coland Nicollet
<i>RUNOFF DESTINATION:</i>	Runoff will exit at 6 locations. Discharge point #1 is located in the northwest corner of the site and will travel 200' to an unnamed tributary of Walnut Creek through a drainage swale. Discharge point #2 is located in the northeast corner of the site and travels 100' feet to an unnamed tributary of Walnut Creek via storm sewer. Discharge point #3 is located in the northeast portion of the site and travels directly into an unnamed tributary of Walnut Creek via storm sewer. Discharge point #4 is located along the eastern property boundary and travels 350' to an unnamed tributary of Walnut Creek storm sewer and a concrete flume. Discharge point #5 is located along the eastern property boundary and travels 800' to an unnamed tributary of Walnut Creek via storm sewer. Discharge point #6 is located along the eastern property line and travels 1500' to an unnamed tributary of Walnut Creek via storm sewer.

SITE ASSESSMENT:

Existing Site Conditions

The Acadia Plat 2 is located northwest of the intersection of NW 160th Drive and Meredith Drive in Urbandale, Iowa. The site currently consists of undeveloped land that was previously utilized for agricultural purposes. The site does not contain prairie grasses or existing buildings, but does contain trees along the northern and eastern borders of the property, as well as an unnamed tributary of Walnut Creek to the northeast. There is a high point through the center of the site which sheds water to the northwest and east. Existing slopes range from 1 to 20 percent.

Adjacent Properties

Acadia Plat 2 is bordered by Meredith Drive to the south, undeveloped agricultural property to the north, northeast and west, and existing estate residential homes to the southwest and southeast. The property south of Meredith Drive is single family residential. The undeveloped property to the north and northeast will be developed as residential.

Receiving Waters

According to the USGS map provided in Section 6 of the SWPPP, the water from this site will run from west to east into an unnamed tributary to Walnut Creek. The unnamed tributary to Little Walnut Creek has a reach of 1.65 miles flowing west to northeast and the water from this site empties into Walnut Creek approximately 0.28 miles from the construction site.

A site review or study has not been completed on Walnut Creek to determine if the waters were impaired or subject to Total Maximum Daily Loads (TMDL's). However, the U.S. Environmental Protection Agency does provide information on different watersheds in Iowa. Walnut Creek lies within the North Raccoon watershed and Walnut Creek was not on the list of impaired waters. A copy of the EPA fact sheet can be found in Section 6 of the SWPPP.

Existing Soil Conditions

A soil survey distributed by the Natural Resources Conservation Service (NRCS) was used to identify the soil types for this project site. A map showing the soils survey for this property can be found in Section 6 of the SWPPP. The four soils identified for this area are Storden loam, Clarion loam, Coland-Terril complex and Nicollet loam. According to the NRCS, Coland -Terril soils are considered poorly drained soils and are part of the C/D hydrologic soil group. Storden and Clarion soils consist of well drained soils and fall in the B hydrologic soil group. Nicollet soils are considered somewhat poorly drained soils and fall into the B/D hydrologic soil group.

Proposed Site Improvements

Accurate Land CO, LLC is planning to develop the property with approximately 63 acres of single family residential. Soil disturbing activities for the entire development will consist of clearing and grubbing, installing stabilized construction exits, topsoil stripping, stockpiling and respread, overall grading, installation of storm water management devices, excavation for the sediment/detention basins, storm sewer, water main, sanitary sewer, franchise utilities, construction of roads, final seeding and mulching, landscaping and future home construction.

Proposed drainage patterns for this site will generally follow the existing drainage patterns. Proposed slopes vary across the development ranging from 1 to 33 percent. There are six discharge points for this site. Discharge point #1 is located in the northwest corner of the site. Water flows overland into a drainage swale that exits the site to the north. Discharge point #2 is located in the northeast corner of the site. Water is conveyed via overland flowage either offsite or into storm sewer/intakes that discharge directly offsite to the north. Discharge point #3 is located in the northeast portion of the site. Water is directed via overland flowage to a series of swales or intakes/storm sewer that discharge into a detention/temporary sediment basin that outlets to the east. Discharge point #4 is located along the eastern property boundary. Water flows via overland flowage either directly offsite or through intakes/storm sewer that discharge offsite onto the property to the east. Discharge points #5 and #6 are located in the southeast and eastern portions of the site. Water is conveyed via overland flowage to a series of drainage swales and intakes/storm sewer that discharge into detention/temporary sediment basins before discharging to the east. Temporary standpipes will be installed on all pond outlets to allow silt to settle to the pond bottoms prior to leaving the site. All the water from this site will eventually be discharged into an unnamed tributary of Walnut Creek.

Site Features and Areas to be Protected

Any existing utilities and public streets surrounding the site shall remain undisturbed, except when installing a utility or street connection. There are a number of existing trees being preserved onsite. It shall be the responsibility of the contractor to ensure that the trees are protected throughout construction.

DISCHARGE POINT SUMMARY

Drainage Area No.	Area (Acres)	Length to Stream	Methods for Routing Storm Water	Proposed Erosion Control Methods	Storm Water Flow Description During Construction
1	1.19	±200 feet to an unnamed tributary of Walnut Creek	Overland flowage, intakes/storm sewer, and drainage swales	Silt fence and inlet protection	Storm water will flow overland across the cleared and graded area and through a vegetated drainage swale, discharging north to an unnamed tributary of Walnut Creek.
2	5.16	±100 feet to an unnamed tributary of Walnut Creek	Overland flowage, intakes/storm sewer, and drainage swales	Silt fence and inlet protection	Storm water will flow overland across the cleared and graded area to intakes/storm sewer, discharging northeast to an unnamed tributary of Walnut Creek via storm sewer.
3	36.64	Directly to an unnamed tributary of Walnut Creek	Overland flowage, intakes/storm sewer, and drainage swales	Silt fence, temporary sediment basins, and inlet protection	Storm water will flow overland across the cleared and graded area to intakes/storm sewer and via vegetated drainage swales, collecting into a series of detention/temporary sediment basins and discharging northeast to an unnamed tributary of Walnut Creek via storm sewer.
4	4.28	±350 feet to an unnamed tributary of Walnut Creek	Overland flowage, intakes/storm sewer, and drainage swales	Silt fence and inlet protection	Storm water will flow overland across the cleared and graded area to intakes/storm sewer, discharging east to an unnamed tributary of Walnut Creek via storm sewer.
5	3.68	±800 feet to an unnamed tributary of Walnut Creek	Overland flowage, intakes/storm sewer, and drainage swales	Silt fence, filter sock, temporary sediment basin and inlet protection	Storm water will flow overland across the cleared and graded area to intakes/storm sewer and via vegetated drainage swales, collecting into a detention/temporary sediment basin and eventually discharging east to an unnamed tributary of Walnut Creek via storm sewer.
6	9.36	±1500 feet to an unnamed tributary of Walnut Creek	Overland flowage, intakes/storm sewer, and drainage swales	Silt fence, temporary sediment basin and inlet protection	Storm water will flow overland across the cleared and graded area to intakes/storm sewer and via vegetated drainage swales, collecting into a detention/temporary sediment basin and eventually discharging east to an unnamed tributary of Walnut Creek via storm sewer.

SCOPE:

This Storm Water Pollution Prevention Plan was developed consistent with the requirements of the National Pollutant Discharge Elimination System (NPDES) storm water permit issued by the Iowa Department of Natural Resources. The Contractor shall be responsible for managing the discharge of storm water from the construction site in accordance with the permit and the following provisions of this SWPPP. The Contractor shall be responsible for conducting the storm water management practices in accordance with the above mentioned permit and shall be responsible for providing qualified inspectors to conduct the inspections as required by the SWPPP. It shall be the responsibility of the Contractor to make any changes to the SWPPP as necessary when the Contractor or any of their subcontractors performs work onsite that changes the construction site.

The SWPPP contains forms that must be signed by the General Contractor and any subcontractor performing work onsite identifying the company name, contact information and person responsible for ensuring that their company will abide by the permit and requirements of the SWPPP. The certification statement must be signed providing verification that they have been instructed on how to comply with and fully understand the requirements of the Iowa Department of Natural Resources and the SWPPP. The certifications must be signed and filed in the project's SWPPP.

The SWPPP is meant to be a working document that shall be maintained and updated at all times throughout the project and shall be kept onsite until the site complies with the final stabilization requirements and a Notice of Discontinuation (NOD) has been submitted. This document shall be readily available upon request by the Owner or any other regulatory authority over storm water issues. A sign or other notice must be posted near the main entrance of the construction site providing contact information for the person responsible for the SWPPP. The Contractor or Owner shall also retain a copy of the SWPPP for a period of at least three years from the date the permit coverage expires or is terminated.

It shall be the responsibility of the Contractor to amend the plan whenever there is a change in design, construction, operation or maintenance, which has a significant effect on the potential for the discharge of pollutants. In addition the plan shall be modified to identify any new contractor and/or subcontractor that will be responsible for implementing or maintaining a portion of the SWPPP.

[Print](#)

Urbandale, IA Code of Ordinances

CHAPTER 54: CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL (COSESCO)

Section

- 54.01 Purpose
- 54.02 Procedure for COSESCO compliance
- 54.03 Site visit procedures for COSESCO
- 54.04 Monitoring procedures for COSESCO
- 54.05 Enforcement by order to terminate further activities
- 54.06 Site type

- 54.99 Penalty

§ 54.01 PURPOSE.

(A) The United States EPA's national pollutant discharge elimination system (NPDES) permit program administered by the State Department of Natural Resources (IDNR) requires that cities meeting certain demographic and environmental impact criteria obtain from the IDNR an NPDES permit for the discharge of stormwater from a municipal separate storm sewer system (MS4) (MS4 permit). The city is subject to the program and is required to obtain, and has obtained, an MS4 permit. The city's MS4 permit is on file at the office of the City Clerk and is available for public inspection during regular office hours.

(B) The program requires certain individuals engaged in construction activities (applicant or applicants) to submit an application to the IDNR for a state NPDES general permit #2. Notwithstanding any provision of this chapter, every applicant bears final and complete responsibility for compliance with a state NPDES general permit #2 and any other requirement of state or federal law or administrative rule.

(C) As a condition of the city's MS4 permit, the city will perform periodic monitoring and primary enforcement of the program by adopting a construction site erosion and sediment control ordinance (COSESCO) designed to achieve the following objectives:

(1) Any person, firm, sole proprietorship, partnership, corporation, state agency or political subdivision ("applicant") required by law or administrative rule to apply to the:

(a) IDNR for a state NPDES general permit #2 shall be subject to the terms of the COSESCO; and

(b) The city for a building permit for new construction and/or a commercial addition shall be subject to the terms of the COSESCO.

(2) The city will perform periodic monitoring and initiate enforcement procedures when appropriate to promote applicants' compliance with city ordinances and state and federal laws regulating stormwater.

(D) No state or federal funds have been made available to assist the city with monitoring and/or enforcing the program. Accordingly, the city shall fund its monitoring and enforcement responsibilities entirely by fees imposed on the owners of properties or applicants of permits which are made subject to the program by virtue of state and federal law and/or other sources of funding established by a separate ordinance.

(E) Terms used in this chapter shall have the meanings specified in the program.

(Ord. 2010-04, passed 2-26-2010)

§ 54.02 PROCEDURE FOR COSESCO COMPLIANCE.

(A) Any person, firm, sole proprietorship, partnership, corporation, state agency or political subdivision ("applicant") required by law or administrative rule to apply to the:

(1) IDNR for a state NPDES general permit #2 are subject to the terms of this chapter; and

(2) The city for a building permit for new construction and/or a commercial addition are subject to the terms of this chapter.

(B) Prior to the issuance of any permits by the city for construction activities on the site, an applicant shall:

(1) If the applicant is applying for a state NPDES general permit #2:

(a) Submit to the city a copy of the site plan prepared by the applicant to meet the requirements of the state NPDES general permit #2. The site plan shall show best management practices (BMP) control measures and a stormwater pollution prevention plan (SWPPP) applicable to the site;

(b) Submit a copy of the applicant's authorizations issued pursuant to applicant's state NPDES general permit #2; and

(c) Every SWPPP submitted to the city shall:

1. Comply with all existing requirements for SWPPPs promulgated by the IDNR in connection with issuance of a state NPDES general permit #2;

2. If the applicant is required by law to file a joint application form protecting state waters, State Department of Natural Resources and United States Army Corps of Engineers, comply with all mandatory minimum requirements pertaining to those applicants; and

3. Comply with all other applicable state or federal permit requirements in existence at the time of application including, but not limited to, waste at construction sites that may cause adverse impact to water quality such as building materials, concrete truck washout, chemicals, solid waste and sanitary waste.

(2) If the applicant is applying for a city building permit, submit to the city a completed and correct construction site erosion and sediment control form.

(C) All construction sites shall be furnished with a stabilized construction site entrance to handle the type and frequency of the traffic entering and exiting the site or make use of some other method designed to prevent off-site tracking. All construction sites shall have erosion control measures (multiple measures may be needed, depending on the site conditions) in place at all locations where stormwater flows from the construction site. Any soils tracked off-site shall be cleaned up by the applicant at the end of each day or before sediments enter the public storm sewer or waters of the state. Any soils entering public storm sewer or waters of the state will be considered a violation of this chapter.

(Ord. 2010-04, passed 2-26-2010)

§ 54.03 SITE VISIT PROCEDURES FOR COSESCO.

(A) All site visits under this chapter shall be conducted by a representative of the city hereinafter referred to as the enforcement officer.

(B) Any applicant that is subject to the terms of COSESCO shall allow the city, or an authorized representative of the city, to enter upon applicant's private property for site visit purposes. Any representative of the city shall present credentials if so required at the time of entry.

(C) The city may conduct site visits at any time.

(1) In any calendar year, the city will visit the site a minimum of once per calendar quarter and upon the receipt of a complaint. The city will charge the applicant the amount as established by resolution of the City Council for each site visit until a time as the following occurs:

(a) For state NPDES general permit #2 sites, a notice of discontinuation to terminate the NPDES general permit #2 is submitted to and approved by the IDNR; and

(b) For city building permit sites, the site reaches final stabilization as defined by the IDNR.

(2) In addition to the site visits set out in division (C)(1) above, the city may conduct additional site visits at the city's own expense.

(D) In the event a site visit identifies an area or incident of noncompliance, the city may, at its discretion, provide the applicant with a list of deficiencies that identifies the area or incident of noncompliance. In the event an enforcement action is taken, a list of deficiencies must first be provided to applicant. If a list of deficiencies is provided, the applicant shall immediately commence corrective action and shall complete corrective action within 48 hours of receiving the list. For good cause shown, the city may extend the deadline for completing corrective action. Failure to take corrective action in a timely manner shall constitute a violation of this chapter.

(E) The city shall not be responsible for the direct or indirect consequences to the applicant or to third parties for noncompliant conditions undetected by the site visit.

(Ord. 2010-04, passed 2-26-2010)

§ 54.04 MONITORING PROCEDURES FOR COSESCO.

(A) *Duty of applicant.* It shall be the applicant's duty to monitor the site daily to assure compliance with city ordinances and state and federal laws regulating stormwater.

(B) *For all state NPDES general permit #2 sites.*

(1) It shall be applicant's duty to notify the city of any changes, alterations, transfers of coverage or sales of any property in the same manner, to the same extent and at the same time as the notification is provided to the State Department of Natural Resources pursuant to the requirements of the state NPDES general permit #2. Transferees must agree to the transfer in writing and must agree to fulfill all obligations of the SWPPP and the state general permit #2. Absent written confirmation of transfer of obligations, the applicant remains responsible for compliance on any lot that has been sold.

(2) It shall be the applicant's duty to notify the city when a notice of discontinuation to terminate the NPDES general permit #2 is submitted to and approved by the IDNR.

(C) *For all city building permit sites.*

(1) It shall be applicant's duty to notify the city of any changes, alterations, transfers of coverage or sales of any property. Transferees must agree to the transfer in writing and must agree to fulfill all obligations of the construction site erosion and sediment control form and city ordinances and state and federal laws regulating stormwater. Absent written confirmation of transfer of obligations, the applicant remains responsible for compliance on any lot that has been sold.

(2) It shall be the applicant's duty to notify the city when the site has reached final stabilization as defined by the IDNR.

(Ord. 2010-04, passed 2-26-2010)

§ 54.05 ENFORCEMENT BY ORDER TO TERMINATE FURTHER ACTIVITIES.

(A) As an alternative to enforcement by civil penalty, an enforcement officer may issue an order to terminate further activities at the site under the following conditions: the order to terminate may be issued only for failure to implement or maintain pollution control BMPs.

(B) Prior to commencing further activity at the site, the applicant shall establish correction of the deficiency by providing to the office of the enforcement officer, a written statement, signed under oath, that the deficiency has been corrected with a description, including photographs when appropriate, of the action taken to correct the deficiency.

(C) If the deficiency is not corrected, the city may commence a legal or administrative action against the applicant as set forth in § 54.99.

(Ord. 2010-04, passed 2-26-2010) Penalty, see § 54.99

§ 54.06 SITE TYPE.

Any site that is required to apply for both a state NPDES general permit #2 through the IDNR and a building permit through the city will follow the state NPDES general permit #2 rules specified in this chapter.

(Ord. 2010-04, passed 2-26-2010)

§ 54.99 PENALTY.

Unless another penalty is expressly provided by this chapter for any particular provision or section, any person(s) violating any provision of this chapter or any rule or regulation adopted herein by reference shall be subject to a civil penalty as set forth in the municipal infractions in Chapter 11 of this code of ordinances. Each day that a municipal infraction occurs and/or is permitted to exist constitutes a separate offense.

(Ord. 2010-04, passed 2-26-2010)

CHAPTER 55: POST-CONSTRUCTION STORMWATER MANAGEMENT

Section

55.01 Findings

55.02 Procedure for post-construction

55.03 Maintenance and repair of stormwater facilities

55.99 Penalty

§ 55.01 FINDINGS.

(A) The United States EPA's national pollutant discharge elimination system ("NPDES") permit program administered by the State Department of Natural Resources ("IDNR") requires that cities meeting certain demographic and environmental impact criteria obtain from the IDNR an NPDES permit for the discharge of stormwater from a municipal separate storm sewer system (MS4). The city's MS4 permit is on file at the office of the City Clerk and is available for public inspection during regular office hours.

(B) As a condition of the city's MS4 permit, the city is obliged to develop, implement and enforce a program to address stormwater runoff from new construction and reconstruction

projects for which the State NPDES general permit #2 stormwater permit coverage is required by adopting a post-construction stormwater management ordinance designed to:

(1) Require water quality and quantity components be considered in the design of new construction and implemented when practical;

(2) Promote the use of stormwater detention and retention, grass swales, buffer strips and proper operation and maintenance of these facilities;

(3) Allow use of bio-retention swales and riparian buffers where practical and the soils and topography are suitable to ensure these measures will be effective in accomplishing the purpose of this chapter;

(4) Prohibit construction activities from commencing until the plans for post-construction runoff controls have been submitted to the city; and

(5) Allow the city to have the ability to access private property for the purpose of enforcement procedures to promote compliance with the state NPDES general permits #2 which require post-construction compliance by applicants.

(C) No state or federal funds have been made available to assist the city with inspections, monitoring and/or enforcing the program. Accordingly, the city shall fund its inspection, monitoring and enforcement responsibilities entirely by fees imposed on the owners of properties which are made subject to the program by virtue of state and federal law and/or other sources of funding established by a separate ordinance.

(D) For the purpose of this chapter, the following definition shall apply unless the context clearly indicates or requires a different meaning.

APPLICANT. Any person, firm or entity applying for a permit to develop, grade or construct within the corporate limits of the city.

(Ord. 2007-18, passed 9-25-2007)

§ 55.02 PROCEDURE FOR POST-CONSTRUCTION.

(A) Each applicant who is required to have coverage under general permit #2 for a site shall install post-construction stormwater management facilities as set forth herein and as approved by the city during site plan, platting or construction plans.

(B) Each applicant or its successor person(s) or entity shall be responsible for maintaining all stormwater management facilities as approved by the city.

(C) For sites equal to or greater than one acre, each applicant must provide to the city as-built plans detailing dimensions and elevations as well as a certification that stormwater management facilities were built as part of the approved development that includes the site. For sites less than one acre that are part of a common plan of development and for which the applicant establishes that stormwater management facilities were or will be built to address all properties (either collectively or individually) within the development, each applicant must provide to the city a copy of the notice of discontinuation for general permit #2 applicable to the property.

(D) Each applicant must include in their site design those stormwater management facilities that will convey drainage through the property to one or more detention and/or treatment areas so that no development shall cause downstream property owners, water courses, channels or conduits to receive stormwater runoff from the proposed development site at a peak flow rate greater than that allowed by the policy or standard in effect at the time of approval of the development unless those requirements are waived by the city. Nothing contained herein shall prohibit the city from changing the policies or standards in the future, nor from requiring the site to comply with the new requirements.

(E) Each applicant shall comply with all other applicable city, state or federal permit requirements as they apply to the city or to the property.

(F) At the discretion of the city, the applicant may satisfy the post-construction stormwater management requirements by ensuring the conveyance of the stormwater discharge from the property to a regional detention facility. For purposes of this chapter, a regional detention facility shall be wet or dry detention basins, which are designed to accept stormwater runoff from two or more site that are required to obtain a state NPDES general permit #2 and that otherwise complies with all city, state or federal permit requirements as they apply to stormwater management requirements for those sites.

(Ord. 2007-18, passed 9-25-2007)

§ 55.03 MAINTENANCE AND REPAIR OF STORMWATER FACILITIES.

(A) Prior to the issuance of any permit that has a stormwater management facility as one of the requirements of the permit, the applicant or owner of the site must execute a maintenance easement agreement that shall be binding on all subsequent owners of land served by the stormwater management facility. The agreement shall provide for access to the facility at reasonable times for periodic inspection by the city, or its contractor or agent, to ensure that the facility is maintained in proper working condition to meet design standards and any other provisions established by this chapter. The easement agreement shall be recorded by the city in the land records.

(B) Maintenance of all stormwater management facilities shall be ensured through the creation of a formal maintenance covenant that must be approved by the city and recorded into the land record at the time of final plat approval. As part of the covenant, a schedule shall be developed for when and how often maintenance will occur to ensure proper function of the stormwater management facility. The covenant shall also include plans for periodic inspections by the applicant, owner or assigns to ensure proper performance of the facility.

(C) The city shall be permitted to enter and inspect any property subject to regulation under this section as often as is necessary to document maintenance and repair needs and determine compliance with the requirements of this chapter. If a responsible party owning, controlling or possessing a property has security measures that require identification and clearance before entry to its property, the responsible party shall make the necessary arrangements to allow access by the city. By way of specification but not limitation:

(1) A responsible party shall allow the city ready access to all parts of the property for purposes of inspection, examination and copying of records related to compliance with this chapter;

(2) Any temporary or permanent obstruction that obstructs the safe and easy access to property to be inspected and shall be promptly removed by the responsible party at the written or oral order of the city and shall not be replaced. The costs of clearing the access shall be borne by the responsible party; and

(3) An unreasonable delay in allowing the city access to a property is a violation of this chapter.

(D) Parties responsible for the operation and maintenance of a stormwater management facility shall make records of the installation and of all maintenance and repairs, and shall retain the records for at least three years. Copies of the as-built plans and records of all self inspections, maintenance and repairs shall be kept on-site and shall be made available to the city during inspection of the facility and at other reasonable times upon request.

(E) In the event that a stormwater management facility is found by the city to be noncompliant with the plans as submitted and approved or is found to be in need of maintenance, the responsible party will be notified in writing of the deficiencies. Upon receipt of the notice, the responsible party shall have 15 days to correct the deficiencies. After proper notice, and if the responsible party fails to make the repairs or perform the maintenance, the city may have the work performed and assess the owner(s) of the facility for the cost of repair work and any penalties; and the cost of the work shall be a lien on the property, or prorated against the beneficial users of the property, and may be placed on the tax bill and collected as ordinary taxes by the city.

(Ord. 2007-18, passed 9-25-2007) Penalty, see § 55.99

§ 55.99 PENALTY.

Unless another penalty is expressly provided by this chapter for any particular provision or section, any person(s) violating any provision of this chapter or any rule or regulation adopted herein by reference shall be subject to a civil penalty as set forth in the municipal infractions in Chapter 11 of this code of ordinances. Each day that a municipal infraction occurs and/or is permitted to exist constitutes a separate offense.

(Ord. 2007-18, passed 9-25-2007)

ANTICIPATED SEQUENCE OF CONSTRUCTION ACTIVITIES:

1. Install perimeter silt fencing, filter sock, and inlet protection devices.
2. Construct temporary construction exits/entrances and designate staging/materials storage area. Designate areas for temporary sanitary facilities, employee parking and dumpster location.
3. Begin clearing and grubbing operations. These operations should only take place in those areas where earthwork is expected to take place within 21 days after completion.
4. Begin topsoil stripping and designate area for stockpile. Topsoil shall be preserved on site.
5. Install silt fences around the stockpiles and temporarily stabilize stockpiles with appropriate erosion control.
6. Grade temporary sediment basins. Install permanent outlet structures, temporary standpipes and wrap perforated risers with filter fabric.
7. Site grading shall begin. Contractor will be responsible for temporarily stabilizing any area that will not be disturbed for at least 21 days no later than 14 days from the last construction activity except as precluded by snow cover.
8. Construct temporary concrete washout areas.
9. Installation of underground utilities.
10. Construct all inlets and manholes as specified in the plans.
11. Install inlet protection devices on all intakes, rip-rap/scour stop on all outlets, and silt fence around outlets as specified on the plan. These devices shall be installed after each structure is constructed.
12. Prepare pavement subgrade and install pavement and sidewalks.
13. Prepare final backfill, grading, topsoil respread and seeding operations. Place preserved topsoil on the surface of the disturbed ground exposed and not covered by concrete, asphalt, gravel or other such material.
14. Begin home construction and continue to monitor SWPPP until all lots are developed or the permit is transferred.
15. Once all development is 100% complete, remove standpipe and convert temporary sediment basins to permanent detention ponds.
16. Remove all silt fence and other temporary erosion controls and stabilize any area disturbed by the removal.
17. Continue to monitor the site until final stabilization is reached.

EROSION AND SEDIMENT CONTROLS:

The contractor/subcontractor shall be responsible for the implementation and management of control measures for the following erosion and storm water management control measures that are specific to this site. Anyone who performs work onsite will be required to sign a certification statement making them responsible for the SWPPP and for abiding by its rules. This certification statement must be signed prior to beginning work at the site and shall be included in the SWPPP. This work shall be done in accordance with the local agency's policies and Division 9 of the Iowa Statewide Urban Design and Specifications (SUDAS). As work progresses, additional erosion control items may be required as determined by the City, engineer or other governmentally regulated agencies after field investigation.

Measures to protect undisturbed areas and topsoil stockpiles

1. Undisturbed Areas

Description: The undisturbed existing vegetative area as shown on the map shall be protected throughout construction. Vehicles and equipment will be kept away from the protected area.	
Installation Schedule:	The preserved area shall be clearly marked off before construction begins at the site.
Maintenance and Inspection:	Undisturbed areas will be inspected weekly.

2. Existing Tree Protection

Description: Existing trees to be preserved, as identified on the site map, will be protected by an orange barrier mesh fence at a minimum of 4-feet in height. This fence shall be secured with metal tree posts and will be no closer than six feet from the trunk or ½ of the drip line of the tree. There will be no storage or movement of equipment, material, debris, or fill within the fenced tree protection zone and no damaging attachment wires, signs or permits may be fastened to any tree. No cleaning of equipment or material or the storage and disposal of waste material, such as paints, oils, solvents, asphalt, concrete, motor oil or any other material harmful to the life of vegetation will be permitted within the protection zone.	
Installation Schedule:	The existing trees to be saved will be marked and protected with orange barrier mesh fence before construction begins at the site.
Maintenance and Inspection:	The area will be inspected weekly to ensure the barrier fence is intact and the tree preservation areas are undisturbed.

3. Topsoil Stockpile

Description: Topsoil stripped from the disturbed area will be stockpiled in a location determined by the contractor. The stockpile will be in an area that will not interfere with construction. Silt fence will be installed around the perimeter of the stockpile and the side slopes will not exceed 2:1 to help reduce erosion. After all of the topsoil has been stripped and stockpiled, it will be temporarily stabilized as specified in the soil stabilization section.	
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Installation Schedule:	The topsoil stockpile will be established during the grading phase of the project. Silt fence and temporary controls will be placed immediately after the stockpile is created.
Maintenance and Inspection:	The stockpile will be inspected at weekly inspections.

Perimeter Controls and Sediment Barriers

1. Silt Fence

Description: Silt fence will be installed around the perimeter of the disturbed area, except in areas where the existing grade doesn't require and at the construction exit. The topsoil stockpile will also require silt fence around the perimeter. Throughout the site silt fence is also needed to control sediment on steeper slopes and to protect inlets from sediment.

Silt fences will be installed according to Section 9 of SUDAS and at locations shown on the Erosion and Sediment Control Plan. Silt fence will be installed by excavating a 12-inch slit in the ground while simultaneously installing 6-12 inches of fabric into the ground. Steel posts will then be driven into the ground approximately 20-inches and spaced accordingly to support the silt fence. The silt fence will be fastened securely onto the posts with wire ties. The trench will then be backfilled and compacted to prevent stormwater and sediment from passing underneath the silt fence. A "J-hook" will be constructed at the end of each run of silt fence by turning the end of the silt fence uphill to prevent sediment from escaping around the ends when water behind the silt fence ponds up to a level even with the top of the fence.

Installation Schedule:	Silt fence will be installed around the perimeter before construction begins. Silt fence will be installed around the stockpile once it is established. Other areas will require silt fence once grading is complete.
Maintenance and Inspection:	Silt fence will be inspected weekly. The inspector will review the silt fence looking for tears or gaps where the fence meets the ground. Accumulated sediment will be removed from the fence or the fence replaced once sediment reaches a level one-half of the height of the fence. If the silt fence is undermined, it will be removed and replaced. The sediment will be removed from the site or respread onsite.

2. Filter Sock

Description: Filter sock will be installed to protect existing paved areas onsite. Installation will be according to Section 9 of SUDAS. Fill the filter sock with filter material and place the filter sock at locations shown on the Erosion and Sediment Control Plan. Additional filter material or soils will be placed between the filter sock and ground to fill in the gap between the sock and ground. Drive stakes into the ground on the backside of the filter sock at a maximum spacing of 10 feet to prevent movement. A "J-hook" will be constructed at the end of each run of filter sock by turning the end of the silt fence uphill to prevent sediment from escaping around the ends when water behind the silt fence ponds up to a level even with the top of the fence.

Installation Schedule:	Filter sock will be installed once grading is complete near the existing paved areas.
Maintenance and Inspection:	Filter sock will be inspected weekly. The inspector will review the filter sock looking for tears or gaps where it meets the ground. Accumulated sediment will be removed from the filter sock or the filter sock replaced once sediment reaches a level one-half of the height of the fence or it becomes clogged with sediment. The filter material must be removed from areas that have a direct contact with surface waters. In other areas the filter sock can be sliced open and the filter material removed or respread onsite.

Soil Stabilization

1. Erosion Control Mulching

Description: Conventional or Hydromulching shall be utilized in areas that cannot be stabilized by seeding due to season or ground conditions. Installation and materials will be according to Section 9010 of SUDAS. Conventional mulching shall be applied uniformly at a rate of 2 tons/acre for dry cereal straw or 2.5 tons/acre for prairie hay. The mulch needs to be worked into the soil with a mulch tucker or similar device designed to anchor the mulch into soil using dull blades or disks. Hydromulching shall be applied in multiple layers from opposing directions where possible. A homogeneous slurry needs to be mixed per manufacturer's recommendations. If the soil is dry, the contractor shall dampen the soil prior to application to avoid clumping of the material. The slurry shall be applied evenly over the area at the following rates: wood cellulose mulch at 2600 lb/acre dry weight and tackifier at 50 lb/acre; bonded fiber matrix at 3600 lb/acre dry weight; and mechanically bonded fiber matrix at 3600 lb/acre dry weight.	
Installation Schedule:	Temporary mulching shall take place in any areas that will not be disturbed for at least 21 days no later than 14 days from the last construction activity.
Maintenance and Inspection:	The mulched areas shall be inspected weekly. If there are areas that mulching has failed they shall be remulched immediately.

2. Temporary Vegetative Cover

Description: Any area that will not be disturbed for at least 21 days no later than 14 days from the last construction activity will need to have temporary seeding except as precluded by snow cover. Temporary seeding is typically done for areas that will be undisturbed for less than one year and should only be done certain times of the year. Installation, seed specifications and fertilizer specifications will be according to Section 9010 of SUDAS. The typical seeding season is from March 1 st to May 31 st and from August 10 th to September 30 th . Any area requiring seeding outside of these dates may need to be mulched until such time seeding may take place. The seedbed area requiring seeding shall be tilled to a minimum of 5 inches in depth with a disk, harrow or field cultivator. Appropriate seeding equipment shall be used to apply the area with seed. The seed shall then be covered by lightly tilling the seeded areas with a disk, rigid harrow, spring tooth harrow or field	
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cultivator. Mulch all seeded areas with straw, wood excelsior or prairie hay the same day the seed is sown. Care should be taken to minimize the displacement of the soil.

Conventional or Hydromulching shall be utilized in areas that cannot be stabilized by seeding due to season or ground conditions. Installation and materials will be according to Section 9010 of SUDAS. Conventional mulching shall be applied uniformly at a rate of 2 tons/acre for dry cereal straw or 2.5 tons/acre for prairie hay. The mulch needs to be worked into the soil with a mulch tucker or similar device designed to anchor the mulch into soil using dull blades or disks. Hydromulching shall be applied in multiple layers from opposing directions where possible. A homogeneous slurry needs to be mixed per manufacturer's recommendations. If the soil is dry, the contractor shall dampen the soil prior to application to avoid clumping of the material. The slurry shall be applied evenly over the area at the following rates: wood cellulose mulch at 2600 lb/acre dry weight and tackifier at 50 lb/acre; bonded fiber matrix at 3600 lb/acre dry weight; and mechanically bonded fiber matrix at 3600 lb/acre dry weight.

Installation Schedule:	Temporary seeding shall take place in any areas that will not be disturbed for at least 21 days no later than 14 days from the last construction activity except as precluded by snow cover.
Maintenance and Inspection:	The seeded areas shall be inspected weekly until a dense cover of vegetation is established. If there are areas that seeding has failed they shall be reseeded, fertilized and mulched immediately.

3. Permanent Vegetative Cover

Description: Permanent seeding shall take place in any area that has been final graded no later than 14 days from the last construction activity except as precluded by snow cover. Installation, seed specifications and fertilizer specifications will be according to Section 9010 of SUDAS. The typical seeding season is from March 1st to May 31st and from August 10th to September 30th. Any area requiring seeding outside of these dates may need to be mulched until such time seeding may take place. The seedbed shall be prepared to provide a smooth, firm and even surface and then tilled 2-4 inches depending on the type of seeding being performed. Equipment shall be chosen to minimize compaction or displacement of the soil. The seed shall then be mixed and sown in an appropriate manner as specified in SUDAS. Mulch all seeded areas with straw, wood excelsior or prairie hay the same day the seed is sown. Care should be taken to minimize the displacement of the soil.

Conventional or Hydromulching shall be utilized in areas that cannot be stabilized by seeding due to season or ground conditions. Installation and materials will be according to Section 9010 of SUDAS. Conventional mulching shall be applied uniformly at a rate of 2 tons/acre for dry cereal straw or 2.5 tons/acre for prairie hay. The mulch needs to be worked into the soil with a mulch tucker or similar device designed to anchor the mulch into soil using dull blades or disks. Hydromulching shall be applied in multiple layers from opposing directions where possible. A homogeneous slurry needs to be mixed per manufacturer's recommendations. If the soil is dry, the contractor shall dampen the soil prior to application to avoid clumping of the material. The slurry shall be applied evenly

over the area at the following rates: wood cellulose mulch at 2600 lb/acre dry weight and tackifier at 50 lb/acre; bonded fiber matrix at 3600 lb/acre dry weight; and mechanically bonded fiber matrix at 3600 lb/acre dry weight.	
Installation Schedule:	Permanent seeding shall take place in any areas that have been final graded no later than 14 days from the last construction activity except as precluded by snow cover.
Maintenance and Inspection:	The seeded areas shall be inspected weekly until a dense cover of vegetation is established. If there are areas that seeding has failed they shall be reseeded, fertilized and mulched immediately.

4. Dust Control

Description: Dust control shall be used in areas that are susceptible to wind erosion. Installation will be according to Section 9 of SUDAS and shall be used as needed based on weather and site conditions. The most common dust control agent is water. It should be applied frequently to any ground surface that has problems with dirt particles becoming airborne which could result in low visibility, health hazards or offsite damage to surrounding properties. Chemical agents such as Calcium Chloride, Lignosulfonate or Soapstock can also be used.	
Installation Schedule:	Dust Control shall be applied in any areas that have problems with controlling wind erosion causing dust particles to become airborne resulting in low visibility, health hazards or offsite damage to surrounding properties.
Maintenance and Inspection:	The exposed earth areas shall be inspected weekly to determine if there are any areas requiring dust control.

5. Topsoil Placement

Description: All topsoil stripped from the construction site shall be preserved and stock piled onsite. After the site has been final graded and prior to permanent vegetative cover being placed, the Contractor shall re-spread a minimum of 4.0 inches, including soil contained in sod, on all areas of the site where the ground surface will be exposed and not covered by concrete, asphalt, gravel or other such material. The final topsoil depth is to be measured after the soil has been compacted in a fashion generally considered adequate for an established lawn and so that dry settlement that occurs after it is placed is minimal. Should topsoil need to be hauled onsite, the soil characteristics shall be similar to the that which existed prior to soil disturbing activities or is consistent with surrounding properties.	
Installation Schedule:	Topsoil stripping shall occur prior to mass grading and an area to stock pile the topsoil shall be designated prior to any land disturbance. Topsoil respreads shall occur after soil disturbing activities have been completed and before final

	stabilization is scheduled to occur.
Maintenance and Inspection:	The topsoil shall be inspected during weekly inspections to ensure the required thickness is maintained until permanent vegetation is placed. If there are areas where the topsoil has been displaced the Contractor shall fix immediately.

Storm Sewer Inlet and Outlet Protection

1. Drop-In Intake Protection

Description: Drop-In intake manufactured devices are one way to provide inlet protection in paved areas. Installation will be according to Section 9 of SUDAS, the manufacturer's specifications and at locations shown on the Erosion and Sediment Control Plan. The devices should be inserted into the stormwater intakes so they are entirely contained below the paving surface within the intake. It shall have the ability to trap sediment before entering the storm sewer system and be designed with an emergency overflow to prevent flooding of surrounding areas.

Installation Schedule:	Drop-In intake devices will be installed once the intakes are installed and paving is complete.
Maintenance and Inspection:	Drop-In intake devices will be inspected weekly. The inspector will review the devices looking for the build up of sediment. The sediment will be removed from the site or respread onsite.

2. Filter Sock

Description: Filter sock will be installed around the perimeter of the storm sewer intake or flared end section inlet to protect the intake from sediment. Installation will be according to Section 9 of SUDAS. Fill the filter sock with filter material and place the filter sock at locations shown on the Erosion and Sediment Control Plan. The filter sock shall be placed in a manner not to completely prohibit the flow of water into the intake.

Installation Schedule:	Filter sock will be installed once the intakes are installed and paving is complete.
Maintenance and Inspection:	Filter sock will be inspected weekly. The inspector will review the filter sock looking for tears or gaps where it meets the ground. Accumulated sediment will be removed from the filter sock or the filter sock replaced once sediment reaches a level one-half of the height of the fence or it becomes clogged with sediment. The filter material must be removed from the site or respread onsite.

3. Silt Fence

Description: A silt fence barrier will be constructed around all storm sewer intakes in grass vegetative swale areas and around any intakes located in future paved areas. Silt fences will be installed according to Section 9 of SUDAS and at locations shown on the Erosion and Sediment Control Plan. Silt fence will be installed by excavating a 12-inch slit in the ground while simultaneously installing 6-12 inches of fabric into the ground. Steel posts will then be driven into the ground approximately 20-inches and spaced accordingly to support the silt fence. The silt fence will be fastened securely onto the posts with wire ties. The trench will then be backfilled and compacted to prevent storm water and sediment from passing underneath the silt fence. The silt fence will be installed in an enclosed rectangle shape around each inlet to prevent silt from entering the intake area.

Installation Schedule:	Silt fence will be immediately placed around the intakes once they have been installed. The silt fence around the intakes in future paved areas will be removed once the subgrade preparation is complete for paving.
Maintenance and Inspection:	Silt fence will be inspected weekly. The inspector will review the silt fence looking for tears or gaps where the fence meets the ground. If silt fence is undermined, it will be removed and replaced. Accumulated sediment will be removed from the fence or the fence replaced once sediment reaches a level one-half of the height of the fence. The sediment will be removed from the site or respread onsite.

4. Rock Outlet Protection

Description: A layer of crushed revetment stone or erosion stone will be constructed around flared end section outlets to protect a channel downstream from erosion and to help dissipate high velocity flows. The stone will be installed according to Section 9 of SUDAS and at locations shown on the Erosion and Sediment Control Plan. All revetment will be installed at a depth no less than 18 inches.

Installation Schedule:	The stone will be immediately placed around the flared end sections once they are installed.
Maintenance and Inspection:	The rock outlets will be inspected weekly. The inspector will review the rock looking for areas that have washed away and need replaced. The inspector shall also look for any areas where the build-up of sediment has occurred. Accumulated sediment will be removed and disposed of offsite or respread onsite.

Temporary Sediment Basin

1. Sediment Basin

Description: There are four temporary sediment basins being proposed on this site. The sediment basins have been designed to provide 3,600 cubic feet of storage volume per acre of disturbed area and a temporary standpipe has been designed to release the 2-year peak storm event over a 6-hour period. The calculations for these sediment basins and construction details of the standpipes can be found in Section 4 of the SWPPP. For storm events greater than 2-years, the water will temporarily overflow a grassed overflow weir. Installation will be according to Section 9 of Iowa SUDAS Standard Specifications and at locations shown on the Erosion and Sediment Control Plan.

The following procedure must be adhered to by the contractor when removing the temporary sediment basin.

1. Do not remove a sediment basin until the upstream area has been fully developed and stabilized with vegetation. The only exception to this shall be if the upstream property has been transferred to another entity that is responsible for their own SWPPP and NPDES Permit. Consult with the erosion and sediment control inspector prior to the removal to ensure that the timing is appropriate. Maintain any silt fence and riprap downstream of the pond outlet to ensure offsite properties are protected from sediment leaving the site.
2. Dewater the basin through pumping, or other acceptable construction practices and make sure the effluent is filtered by a method approved by the erosion and sediment control inspector.
3. Remove accumulated sediment (as needed) to establish the final grade of the basin area as illustrated in the construction documents. Sediment must be disposed of in an area approved by the erosion and sediment control inspector.
4. Remove temporary stand pipe (if applicable).
5. Final grade the basin area, respread topsoil and roughen the area to prepare it for final vegetative restoration.
6. If the basin is being converted to a permanent facility, remove temporary stand pipe and inspect and clean out outlet structure to ensure it is clean and no build-up of sediment has occurred. If a build-up of sediment is present the Contractor will be responsible for jetting out or cleaning the pipe.
7. Maintain restored area until vegetation is established.

Installation Schedule:	The sediment basin and temporary stand pipe will be graded and constructed at the time mass grading is taking place.
Maintenance and Inspection:	The stand pipe and sediment storage area will be inspected weekly. The inspector will look for erosion and damage along the banks of the basin. The inlets, outlets and spillway will be checked for damage, plugging or a build up of sediment. Any repairs needed will take place immediately by the contractor. Accumulated sediment will be removed from the sediment storage area once sediment reaches a level one-half of the depth of sediment capacity. The sediment will be removed from the site or respread onsite.

Stabilized Construction Exits

1. Stabilized construction exit

Description: Temporary stabilized exits will be installed at any areas leaving the site that have potential of construction traffic tracking sediment on to existing paved areas. The exit area will be installed at a minimum of 150 feet in length and consist of a 3" crushed rock at a minimum depth of 6 inches. A layer of geotextile filter fabric may need to be installed prior to the rock in order to reduce the displacement of soil underneath the crushed rock. The exit shall be flared at the end closest to the paved areas to provide greater protection. The exit should be graded to prevent runoff from flowing onto the existing paved areas. The construction exit will be installed according to Section 9 of SUDAS and at locations shown on the Erosion and Sediment Control Plan.

Installation Schedule:	The stabilized exit will be installed before construction begins on the site and shall remain until the subgrade of any paved areas is prepared and final grading is complete and seeding has taken place.
Maintenance and Inspection:	The stabilized exits will be inspected weekly. The exit to the site will be kept in a condition that will prevent the tracking of sediment onto existing paved areas. All sediment that is tracked or spilled will be cleaned up immediately. The inspector will review the exit for any clogging of the voids in the stone. Once the stabilized exit is no longer keeping sediment from being tracked offsite the contractor will replace the rock. Any sediment collected from the stabilized exit or from offsite paved areas will be removed from the site or respread onsite.

POST CONSTRUCTION MEASURES:

Potential storm water pollutants after completion of construction are expected to be typical of this type of development. Expected pollutants include automobile pollutants (oil, grease, antifreeze, brake dust, rubber fragments, gasoline, etc.), yard pesticide and fertilizer runoff, vehicle wash water, salt and sand during winter month snow removal and improper garbage disposal. Permanent measures have been integrated into the site plan to improve the storm water quality and capture some of these typical pollutants before they leave the site.

Detention Pond

Description: Four detention pond features are being constructed as specified in the construction drawings which will provide dry bottom storage pond for storm water running off of this site. The majority of the water from this project area will flow into the ponds by overland flowage and through storm sewers or vegetated swales. The ponds will also be utilized as temporary sediment basins during construction. Detention is being provided in the ponds and flows are being restricted during large rain events to protect downstream properties.
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Maintenance and Inspection:

After construction is complete in the development and the NPDES permit is discontinued, the pond needs to be inspected annually. Remove all trash, litter, debris or obstructions in the basin. Plant, mow, maintain and replant vegetation as needed to keep permanent vegetation around the pond. Inspect the pond for any defects, obstructions or changes to the original design. Any deficiencies need to be repaired to conform to the original design.

Rock Outlet Protection

Description: A layer of crushed revetment stone or erosion stone will be constructed around all flared end section outlets to protect a channel downstream from erosion and to help dissipate high velocity flows.

Maintenance and Inspection:

After construction is complete in the development and the NPDES permit is discontinued, all storm sewer outlets and other point discharge areas need to be inspected annually. The rock outlets need to be inspected for any areas that have washed away and need replaced. These areas should be repaired immediately to conform to the original design.

Vegetative Buffer

Description: Sod or seed will be installed between the R.O.W. line and the public street. Water will enter the vegetative layer before hitting the street and storm sewer and will either absorb into the ground or will be filtered by the grass.

Maintenance and Inspection:

After construction is complete, the vegetation is established and NPDES permit is discontinued, all vegetative areas will be maintained by the adjacent property owners. These areas will need to be inspected for bare spots and reseeded if necessary for repair. These

	areas should be repaired immediately to conform to the original design.
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Undisturbed Vegetation

Description: Existing vegetation will remain undisturbed throughout construction to provide a natural buffer and filtration system for storm water as it discharges onto the area.	
Maintenance and Inspection:	After construction is complete and NPDES permit is discontinued, all vegetative areas will be maintained by the adjacent property owners. These areas will need to be inspected for bare spots and reseeded if necessary for repair. These areas should be repaired immediately to conform to the original design.

INSPECTION AND MAINTENANCE PROCEDURES:

The contractor is required to maintain all temporary erosion control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. The following inspection and maintenance practices will be used to maintain erosion and sediment controls and stabilization measures.

1. All control measures will be inspected at least once every seven (7) calendar days.
2. All measures will be maintained in good working order. If a repair is necessary, it will be initiated within 24 hours of the report and completed within 7 days of the event.
3. A maintenance inspection report will be made after each inspection and recorded in the project diary. The report must be signed by a "qualified" inspector in accordance with General Permit #2. The report shall include the inspector's findings related to the condition of any existing erosion control devices or newly seeded areas, the condition of the construction exit and review of any offsite tracking, and the inspection of any equipment storage and maintenance areas for any fuel, oil or other pollutant leaks. The inspector shall also review the discharge points from the site to ensure there is no evidence of pollutants leaving the site.
4. The contractor/owner will be responsible for selecting a "qualified" inspector to conduct the inspections. "Qualified" is defined as a person knowledgeable in the principles and practices of erosion and sediment controls who possesses the skills to assess conditions at the construction site that could impact storm water quality and to assess the effectiveness of any sediment and erosion control measures selected to control the quality of storm water discharges from the construction activity. The inspector shall also possess knowledge in the appropriate governmental agency's storm water pollution prevention and/or environmental ordinances and be able to provide the agency with any information or data requested within the time frame required by that agency. SWPPP inspectors shall also have a basic knowledge of hydrology, soil mechanics and comprehension of construction drawings and specifications. A general understanding of the equipment and materials used in managing erosion and sediment on a project site will also be required.
5. The contractor/owner will be responsible for maintaining records for 3 years from the date the site is finally stabilized.

GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

Site sources of pollution generated as a result of this work related to silts and sediment which may be transported as a result of a storm event. However, this SWPPP provides conveyance for other (non-project related) operations. These other operations have storm water runoff, the regulation of which is beyond the control of this SWPPP. Refer to later sections for a complete list of potential pollutants that may be located onsite.

Product Specific Practices

The following is a list of potential sources of pollution and specific practices to reduce pollutants discharges from materials or sources expected to be present onsite during construction.

1. Staging Area

Description: A staging area will be constructed which provides a place for the storage of construction equipment, maintenance materials, vehicle parking, construction trailer, building materials, hazardous-waste materials, waste receptacles, concrete washout areas and portable restroom facilities. The contractor will be responsible for designating this area and providing appropriate storage areas. Rock may be required in the staging area to avoid track out from the site. The site superintendant is responsible for training all personnel on the proper locations for the storage of materials. All materials will be stored in an area to minimize exposure to storm water conveyances and drains.	
Installation Schedule:	The staging area will be installed after grading and before any infrastructure is constructed at the site.
Maintenance and Inspection:	The staging area will be inspected weekly. The inspector will review the area to make sure it is kept clean, well organized and equipped to store the appropriate materials and equipment.

2. Sanitary Wastes

Description: Temporary portable restroom facilities will be provided at the site in the staging area and shall remain throughout construction. The facilities will be located in an area away from storm water conveyances, drains and traffic flow. Wastes will be collected and disposed of in complete compliance with local, state and federal regulations.	
Installation Schedule:	Portable restroom facilities will be installed once the staging area is constructed.
Maintenance and Inspection:	The restroom facilities will be inspected weekly. The inspector will look over the facilities for evidence of any leaking holding tanks. It will be the site superintendant's responsibility to make sure the portable restroom facilities are cleaned out on a regular basis to ensure they do not exceed their capacity.

3. Trash and Construction Debris Disposal

Description: All trash materials will be collected and disposed of into designated trash receptacles or dumpsters located in the staging area. All trash containers will have a secured lid, be placed in an area away from storm water conveyances and drains, and meet all local and state solid waste management regulations. No construction debris will be allowed to be buried onsite. Trash placed in the receptacles will only be trash related to construction on the construction site. The site superintendant is responsible for training all personnel on the correct procedure for the disposal of trash and construction debris.

Installation Schedule:	Dumpsters and/or trash receptacles will be installed once the staging area is constructed.
Maintenance and Inspection:	The dumpsters will be inspected weekly. The inspector will review the dumpsters to see if they are exceeding their capacity as well as review the site to ensure trash and construction debris is being properly disposed of. It will be the site superintendant's responsibility to make sure the dumpsters and/or trash receptacles are emptied on a regular basis.

4. Recycling Areas

Description: All trash materials such as wood pallets, cardboard boxes and other recyclable construction scraps will be disposed of in a designated dumpster for recyclable materials. All trash containers will have a secured lid, be placed in an area away from storm water conveyances and drains, and meet all local and state solid waste management regulations. No construction debris will be allowed to be buried onsite. Trash placed in the receptacles will be only trash related to construction on the construction site. The site superintendant is responsible for training all personnel on the correct procedure for the disposal of trash and construction debris.

Installation Schedule:	Dumpsters and/or trash receptacles will be installed once the staging area is constructed.
Maintenance and Inspection:	The dumpsters will be inspected weekly. The inspector will review the dumpsters to see if they are exceeding their capacity as well as review the site to ensure trash and construction debris is being properly disposed of. It will be the site superintendant's responsibility to make sure the dumpsters and/or trash receptacles are emptied on a regular basis.

5. Hazardous Materials

Description: All hazardous waste materials such as petroleum products, motor oil, oil filters, paint, paint stripper, fertilizers, pesticides, cleaning solvents, detergents, aerosol lubricants and construction equipment maintenance fluids will be stored in a designated hazardous materials storage area. All hazardous materials will be disposed of in accordance with local, state and federal regulations and will not be disposed of into on-site trash receptacles. Products will be stored in their original containers with the material safety data labels intact. The storage of all hazardous waste materials will be located in an area away from storm water conveyances, drains and traffic flow. The site superintendant is

responsible for training all personnel on the correct procedure for the disposal and handling of hazardous materials.	
Installation Schedule:	Once any hazardous waste materials are brought onsite for storage the contractor will designate an area for hazardous waste storage.
Maintenance and Inspection:	The hazardous material storage area will be inspected weekly. The inspector will review the area to make sure it is kept clean, well organized and equipped to store the appropriate materials. It will be the site superintendant's responsibility to make sure procedures are in place to deal with a hazardous waste spill and for training all personnel on the correct procedure for the disposal and handling of all of the hazardous materials.

6. Vehicle/Equipment Fueling and Maintenance

Description: Vehicle fueling and minor maintenance may take place onsite. Onsite petroleum storage tanks may be present onsite and stored within the staging area. When vehicle fueling must occur onsite, the fueling activity will take place in the staging area and care should be taken to minimize fuel spills. Should a spill occur the contractor is responsible for providing absorbent, spill-cleanup materials and/or a spill kit. Only minor maintenance of construction vehicles will be allowed onsite. All equipment fluids and wastes generated will be properly disposed of at a hazardous waste disposal site designated by the contractor. Construction vehicles should be inspected and monitored daily for leaks. Leaks will be repaired immediately and/or the vehicle immediately removed from the site until it is repaired. The maintenance and fueling of all vehicles and equipment will be located in an area away from storm water conveyances and drains. The site superintendant is responsible for training all personnel on the correct procedures for fueling and maintenance of construction vehicles and equipment.	
Installation Schedule:	Vehicle/Equipment fueling and maintenance procedures will be implemented at the beginning of construction.
Maintenance and Inspection:	<p>The inspector will review vehicle/equipment storage areas weekly. The inspector will review the area to make sure there are no visible spill areas.</p> <p>The site superintendant is responsible for inspecting vehicles and equipment daily for leaks and must keep an ample supply of spill-cleanup materials or spill kits on hand. It will be the site superintendant's responsibility to make sure all personnel are trained on the correct procedures for fueling and maintenance of construction vehicles and equipment.</p>

7. Concrete Washout Areas

Description: Concrete trucks will be allowed to washout or discharge excess concrete in specifically designated areas. The washout will be installed as shown on the detail provided in Section 4 of the SWPPP. The washout area should be constructed at a minimum length and width of 10 feet and will be lined with a 10 mils thick plastic lining. Filter sock will be installed surrounding the washout area to prevent the spillage of concrete. The site superintendant is responsible for posting signs at the washout locations to ensure concrete operators use the proper facility.

The site superintendant will be responsible for cleaning out the washout pit once it becomes 75% full. The hardened product from the concrete washout areas will be disposed of as other non-hazardous waste materials or may be broken up and used on the site for other appropriate uses. Once the temporary washout areas are no longer needed, the materials will be removed and disposed of and the areas will be backfilled, graded and permanently stabilized.

Installation Schedule:	The washout areas will be constructed once paving operations begin onsite.
Maintenance and Inspection:	The concrete washout areas will be inspected weekly. The inspector will review the area to make sure there are no tears in the plastic lining and that the concrete operators are disposing of excess concrete properly. Accumulated hardened concrete will be removed from the washout area once it is filled 75% of its holding capacity. The product removed will be removed from the site or may be broken up and used on the site for other appropriate uses.

8. Rural Agricultural Activities

Description: Runoff from surrounding agricultural land use can potentially contain chemicals including herbicides, pesticides, fungicides and fertilizers as well as sediment.

Maintenance and Inspection:	Any surrounding agricultural use that naturally slopes onto the site will be inspected weekly. The inspector will look for any sediment or chemicals coming on to the property.
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POLLUTANT SPILL PREVENTION AND RESPONSE PROCEDURES:

The site superintendant is responsible for training all personnel in the proper handling and cleanup of spilled materials. No spilled hazardous materials or wastes will be allowed to come into contact with storm water discharges. If contact does occur, the storm water discharge will be contained onsite until appropriate measures in compliance with all federal, state and local regulations are followed to dispose of the hazardous substance. The following practices will be followed for spill prevention and cleanup.

General Materials Handling Practices

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be done to minimize the potential for hazardous material spills and to reduce the risk of the spill coming in contact with storm water.

1. Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be trained regarding these procedures and the location of the information and cleanup supplies.
2. Emergency contacts for the project will be posted at the project office.
3. Materials and equipment necessary for spill control, containment and cleanup will be provided onsite in a material storage area. Equipment and materials will include but not be limited to brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, plastic and metal trash containers, plastic bags and oil absorbent pads. Spill response equipment will be inspected and maintained as necessary to ensure the proper supplies are available during a spill.
4. Potential pollutants will be stored and used in a manner consistent with the manufacturer's instructions in a secure location. To the extent practicable, material storage areas should not be located near storm drain inlets and should be equipped with covers, roofs, or secondary containment as needed to prevent storm water from contacting stored materials. Chemicals that are not compatible shall be stored in segregated areas so that spilled materials cannot combine and react.
5. Materials disposal will be in accordance with the manufacturer's instructions and all federal, state and local regulations. Adequate garbage, construction waste and sanitary waste handling and disposal facilities will be provided to keep potential pollutants from contaminating the construction site.
6. Only those materials needed for construction shall be stored onsite and when they are no longer needed they should be removed from the site as soon as practicable.
7. All pollutants, including but not limited to waste materials and demolition debris, that occur onsite during construction will be handled in a way that does not contaminate storm water.
8. All chemicals including but not limited to liquid products, petroleum products, water treatment chemicals and wastes stored on site will be covered and contained.
9. Maintenance and repair of all equipment and vehicles involving oil changes, hydraulic system drain down, de-greasing operations, fuel tank drain down and removal, and other activities which may result in the release of contaminants, will be conducted under cover during wet weather and on an impervious surface to prevent the release of contaminants onto the ground. Materials spilled during these operations will be cleaned up immediately and properly disposed of.
10. Any application of agriculture chemicals, including fertilizers and pesticides, will be conducted in a manner and at application rates that will not result in the loss of chemical to storm water runoff. Manufacturer's recommendations will be followed for application rates and procedures.

Spill Response

The site superintendent will be responsible for the day-to-day site operations and will be the spill prevention and cleanup coordinator. He or she will designate at least three other site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of these individuals will be posted in the material storage area and in the office trailer. In the event of a spill, the following procedures will be followed immediately to prevent the release of pollutants.

1. The site superintendent is to be notified immediately when a spill or the threat of a spill occurs. The superintendent will be responsible for reviewing the situation and determining the appropriate response.
2. If the contaminant represents an imminent threat of polluting storm water, leaving the construction site and entering into receiving waters the Contractor needs to take immediate action to contain the release.
3. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with the hazardous substance.
4. A list of emergency response contractors provided by the Iowa Department of Natural Resources is provided in Section 6 of this SWPPP. Ensure that any contractor hired is in compliance with all OSHA regulations for emergency response personnel.

Notification

Spills of a toxic or hazardous material will be reported to the appropriate federal, local or state governmental agency and Owner, regardless of the size of the spill. The job site superintendent will be responsible for contacting the governmental agencies. Refer to Section 6 of this SWPPP for a copy of the *Iowa Administrative Code Chapter 131: Notification of Hazardous Conditions* which outlines the guidelines for reporting hazardous conditions. In the event of a spill, make the appropriate notifications as follows:

1. Any oil, hazardous substance or hazardous waste spills of amounts that exceed Federal Reportable Quantity (RQ) of certain substances specifically mentioned in federal regulations must be immediately reported to the EPA National Response Center Hotline at (800) 424-8802 or (202) 426-2675.
2. Within 30 days of the incident, a Written Report for Hazardous Conditions which is included in Section 6 of this SWPPP must be filled out and submitted to the Iowa Department of Natural Resources via mail, fax or electronic mail at the following address:
IDNR Emergency Response
401 SW 7th Street, Suite I
Des Moines, IA 50309
Fax: (515) 725-0218
Email: Emergency_Response@dnr.state.ia.us
3. Any spill of a hazardous substance must be reported within 6 hours by telephone to the Iowa Department of Natural Resources at (515) 281-8694 and the local Sheriff's office.
4. If the spill exceeds a reportable quantity, the SWPPP must be modified within 5 calendar days after the spill and a written description of the events must be included. The modification shall include: a description of the release; the date of the release; an explanation of why the spill happened; a description of procedures to prevent future spills and/or releases from happening; and a description of response procedures should a spill or release occur again.

LISTING OF POTENTIAL POLLUTANT IMPACTS ON WATER QUALITY:

The following is a list of potential pollutants that may be present on construction sites. Material Safety Data Sheets (MSDS) for each substance with hazardous properties that are used on the job site shall be filed at the job site construction trailer office. Refer to the MSDS's for substances with hazardous properties that are specific for this site.

Construction Material	Pollutants
Pesticides (insecticides, fungicides, herbicides, rodenticides)	Chlorinated hydrocarbons, organophosphates, carbamates, arsenic
Fertilizer	Nitrogen, phosphorous
Erosion	Soil, Sediment
Plaster	Calcium sulphate, calcium carbonate, sulfuric acid
Cleaning Solvents	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates
Hot-Mix Asphalt	Oil, petroleum distillates
Tar/black-jack	Oil, petroleum distillates, methylene chloride, trichloroethylene
Concrete	Limestone, sand, cement, fly ash, lime
Concrete Admixture – Accelerators	Calcium chloride, triethanolamine, sodium thiocyanate, calcium formate, calcium nitrite, calcium nitrate
Concrete Admixture – Air Entraining	Salts of wood resins, salts of sulfonated lignin, salts of petroleum acids, salts of proteinaceous material, fatty and resinous acids, alkylbenzene sulfonates, salts of sulfonated hydrocarbons
Coloring Concrete Admixture	Modified carbon black, iron oxide, phthalocyanine, umber, chromium oxide, titanium oxide, cobalt blue
Concrete Pumping Aids	Organic and synthetic polymers, organic flocculents, organic emulsions of paraffin, coal tar, asphalt, acrylics, bentonite and pyrogenic silicas, hydrated lime
Concrete Retarders	Lignin, borax, sugars, tartaric acid and salts
Concrete Shrinkage Reducers	Polyoxyalkylene alkyl ether, propylene glycol
Concrete Admixture – Superplasticizers	Sulfonated melamine formaldehyde condensates, sulfonated naphthalene formaldehyde condensates, lignosulfonates, polycarboxylates

Concrete Admixture – Water Reducer	Lignosulfonates, hydroxylated carboxylic acids, carbohydrates
Curing Compounds	Naphtha
Caulk	Mineral spirits, thylene glycol
Sealants	Toulene, n-hexane, silica quartz, calcium carbonate, silica, amorphous
Intumescent Fire-Stop Sealant	Calcium carbonate, ammonium polyphosphate, boron trioxide, talc, zinc oxide, ethylene glycol, polybutene, iron oxide
Sanitary Waste & Pathogens from Temporary Restroom Facilities	Nitrates
Floatables	Litter such as plastic containers, wrappers, cans, cigarettes, etc.
Soil Stabilization Additives	Sodium Silicate, Calcium Chloride
Dust Control Agents	Calcium chloride, tree resin emulsion, lgnin, oil rosin, soybean oil, polymers
Vehicle Exhaust	Benzene, xylenes, toluene, furans, polycyclic aromatic hydrocarbons (PAH's), benzo(a)pyrene
Detergents	Organic chemicals, ammonia, ethanol, methanol, chromic acid
Glue, adhesives	Polymers, epoxies
Paints	Metal oxides, Stoddard solvent, talc, calcium carbonate, arsenic
Paint Stripper	Petroleum distillate, petroleum hydrocarbon
Wastewater from Construction Equipment Washing	Soil, oil & grease, solids
Wood Preservatives	Stoddard solvent, petroleum distillates, arsenic, copper, chromium
Wood Fillers	Magnesium carbonate, limestone, kaolin, black carbonate, silica, amorphous
Wood dust / Saw dust	Pulp, methylcellulose, cellulose pulp
Styrofoam	Polystyrene, chlorodifluoroethane, ethyl chloride
Gypsum Board	Calcium sulfate dihydrate, paper, clay, vermiculite
Epoxy resin / Fiberglass Insulation	1-methyl ethylidene, chloromethyl, oxirane, 2-pentanone, acetic acid
Hydraulic oil/fluids	Mineral Oil
Motor Oil	Aliphatic hydrocarbon, xylene, naphthalene, biphenyl

Aerosol Lubricant	Naphtha, paraffin oil, ethanol, ethyl hexyl alcohol
Gasoline	Benzene, ethyl benzene, toluene, xylene, MTBE
Diesel Fuel	Petroleum distillate, oil & grease, naphthalene, xylenes
Kerosene	Coal oil, petroleum distillates
Propane	n-butyl acetate
Antifreeze/coolant	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)
Formaldehyde Bonded Panel	Resin solids, free formaldehyde, chromium, arsenic, copper

NON-STORM WATER DISCHARGES:

The following is a list of non-storm water discharges allowed by the Environmental Protection Agency and the Iowa Department of Natural Resources and may occur at the job site under the condition that no pollutants will be allowed to come into contact with the water prior to or after its discharged from the site:

1. Water from fire fighting activities and fire hydrant flushings excluding the presence of dry residual chlorine
2. Water used to wash vehicles when detergents are not used
3. Potable water sources including waterline flushings, irrigation drainage and routine building wash downs excluding detergents
4. Uncontaminated air conditioning condensate
5. Uncontaminated springs or ground water
6. Foundation or footing drains where flows have not been exposed to solvents
7. Pavement wash waters where spills or leaks of hazardous material has not occurred and no detergents are present
8. Water used to control dust
9. Uncontaminated excavation dewatering



**IOWA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
NOTICE OF INTENT FOR NPDES COVERAGE UNDER GENERAL
PERMIT**

CASHIER'S USE ONLY
0253-542-SW08-0581
Authorization #
Name

No. 1 FOR "STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY"

or

No. 2 FOR "STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR CONSTRUCTION ACTIVITIES"

or

No. 3 FOR "STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR ASPHALT PLANTS, CONCRETE BATCH PLANTS, ROCK CRUSHING PLANTS, AND CONSTRUCTION SAND AND GRAVEL FACILITIES."

PERMIT INFORMATION

Has this storm water discharge been previously permitted? ☐ Yes ☒ No

If yes, please list authorization number _____

Under what General Permit are you applying for coverage?

General Permit No. 1 ☐

General Permit No. 2 ☒

General Permit No. 3 ☐

PERMIT FEE OPTIONS

For coverage under the NPDES General Permit the following fees apply:

- ☐ Annual Permit Fee \$175 (per year) Maximum coverage is one year.
- ☒ 3-year Permit Fee \$350 Maximum coverage is three years.
- ☐ 4-year Permit Fee \$525 Maximum coverage is four years.
- ☐ 5-year Permit Fee \$700 Maximum coverage is five years.

Checks should be made payable to: Iowa Department of Natural Resources.

FACILITY OR PROJECT INFORMATION

Enter the name and full address/location (not mailing address) of the facility or project for which permit coverage is requested.

NAME: Acadia		STREET ADDRESS OF SITE: Approx. 300' south of the intersection of 160th St. & Brookview Dr.	
CITY: Urbandale	COUNTY: Dallas	STATE: Iowa	ZIP CODE: 50322

CONTACT INFORMATION

Give name, mailing address and telephone number of a contact person (Attach additional information on separate pages as needed). This will be the address to which all correspondence will be sent and to which all questions regarding your application and compliance with the permit will be directed.

NAME: Accurate Land Co. Inc. - Attn: Kevin Johnston		ADDRESS: 12035 University Avenue Suite 100	
CITY: Clive	STATE: Iowa	ZIP CODE: 50325	TELEPHONE (515) 327-0800

Check the appropriate box to indicate the legal status of the operator of the facility.

☐ Federal ☐ State ☐ Public ☒ Private ☐ Other (specify) _____

SIC CODE (General Permit No. 1 & 3 Applicants Only)

SIC code refers to Standard Industrial Classification code number used to classify establishments by type of economic activity.

FACILITY LOCATION OR LOCATION OF CONSTRUCTION SITE

Give the location by ¼ section, section, township, range, (e.g., NW, 7, T78N, R3W).

1/4 SECTION	SECTION	TOWNSHIP	RANGE
SE	14	79N	26W

MAIL TO:

STORM WATER COORDINATOR
IOWA DEPARTMENT OF NATURAL
RESOURCES
502 E 9TH ST
DES MOINES IA 50319-0034

OWNER INFORMATION

Enter the name and full address of the owner of the facility.

NAME: Accurate Land Co. Inc.		ADDRESS: 12035 University Avenue, Suite 100	
CITY: Clive	STATE: Iowa	ZIP CODE: 50325	TELEPHONE: (515) 327-0800

OUTFALL INFORMATIONDischarge start date, i.e., when did/will the site begin operation or 10/1/92, whichever is later: July 2013

Is any storm water monitoring information available describing the concentration of pollutants in storm water discharges?

☐ Yes ☒ No**NOTE:** Do not attach any storm water monitoring information with the application.

Receiving water(s) to the first uniquely named waterway in Iowa (e.g., road ditch to unnamed tributary to Mud Creek to South Skunk River):

unnamed tributary to Walnut Creek

Compliance With The Following Conditions:

Has the Storm Water Pollution Prevention Plan been developed prior to the submittal of this Notice of Intent and does the plan meet the requirements of the applicable General Permit? (do not submit the SWPPP with the application)

Yes No

☒ ☐

Will the Storm Water Pollution Prevention Plan comply with approved State (Section 161A.64, Code of Iowa) or local sediment and erosion plans? (for General Permit 2 only)

☒ ☐

Have two public notices been published for at least one day, one each in the two newspapers with the largest circulation in the area where the discharge is located, and are the proofs of notice attached? (new applications only)

☒ ☐**GENERAL PERMIT NO. 2 AND GENERAL PERMIT NO. 3 APPLICANTS COMPLETE THIS SECTION.**

Description of Project (describe in one sentence what is being constructed):

Construction of a single family subdivision.

For General Permit No. 3 - Is this facility to be moved this year? ☐ Yes ☐ NoNumber of Acres of Disturbed Soil: Approx. 15.5 Acres
(Construction Activities Only)

Estimated Timetable For Activities / Projects, i.e., approximately when did/will the project begin and end:

July 2013 - July 2015

CERTIFICATION - ALL APPLICATIONS MUST BE SIGNED

Only the following individuals may sign the certification: owner of site, principal executive officer of at least the level of vice-president of the company owning the site, a general partner of the company owning the site, principal executive officer or ranking elected official of the public entity owning the site, any of the above of the general contracting company for construction sites.

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified people properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, this information is to the best of my knowledge and belief, true, accurate, and complete. I further certify that the terms and conditions of the general permit will be met. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME: (print or type) <u>Kevin J Johnson</u>	TITLE AND COMPANY NAME OF SIGNATORY: <u>President</u>
SIGNATURE: <u>Kevin J Johnson</u>	DATE: <u>6-27-13</u>

AFFIDAVIT OF PUBLICATION AND COST

STATE OF IOWA }
County of Polk } ss.

PUBLIC NOTICE OF STORM WATER DISCHARGE ACCURATE LAND CO.

PUBLIC NOTICE OF STORM WATER DISCHARGE

Accurate Land Co. LLC plans to submit a Notice of Intent to the Iowa Department of Natural Resources to be covered under the NPDES General Permit No. 2 "Storm Water Discharge Associated with Industrial Activity for Construction Activities." The storm water discharge will be from the construction of a single family residential subdivision located in SE 1/4, Section 14, Township 79N, Range 26W, Dallas County, Iowa. Storm water will be discharged from 1 point source and will be discharged to the following stream: Walnut Creek via unnamed ditches, storm sewer, and tributaries. Comments may be submitted to the Storm Water Discharge Coordinator, Iowa Department of Natural Resources, Environmental Protection Division, 502 E. 9th Street, Des Moines, IA 50319-0034. The public may review the Notice

of Intent from 8 a.m. to 4:30 p.m., Monday through Friday, at the above address after it has been received by the department.
Published in the Business Record on June 28, 2013.

I, Janette Larkin, on oath depose and say that I am the publisher of the Business Record, a newspaper of general circulation having a bona fide paid circulation recognized by the Postal Laws of the United States; established and published regularly and wholly in the English language and mailed through the post office of current entry for more than two years in the City of Des Moines, Polk County, Iowa; and that the attached notice was published in said newspaper on:

June 28, 2013

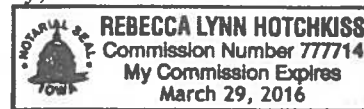
Janette Larkin

Subscribed and sworn to before me by Janette Larkin
this 28th day of June, A.D. 2013

Rebecca Hotchkiss

Notary Public in and for Polk County, Iowa

Statutory Publication Fee, \$17.03



Paid by _____

Date _____ Business Record

By _____

AFFIDAVIT OF PUBLICATION

COPY OF ADVERTISEMENT
Exhibit "A"

**R242 PUBLIC NOTICE OF
STORM WATER DISCHARGE**
Accurate Land Co. LLC plans to
submit a Notice of Intent to the
Iowa Department of Natural
Resources to be covered under
the NPDES General Permit No.
2 "Storm Water Discharge
Associated with Industrial
Activity for Construction
Activities." The storm water
discharge will be from the
construction of a single family
residential subdivision located in
SE 1/4, Section 14, Township 79N,
Range 26W, Dallas County,
Iowa.
Storm water will be discharged
from 1 point source and will be
discharged to the following
stream: Walnut Creek via
unnamed ditches, storm sewer,
and tributaries.
Comments may be submitted to
the Storm Water Discharge
Coordinator, Iowa Department
of Natural Resources,
Environmental Protection
Division, 502 E. 9th Street, Des
Moines, IA 50319-0034. The public
may review the Notice of Intent
from 8 a.m. to 4:30 p.m., Monday
through Friday, at the above
address after it has been
received by the department.

STATE OF IOWA
SS
COUNTY OF POLK

The undersigned, being first duly sworn
on oath, states that The Des Moines Register
and Tribune Company, a corporation duly
organized and existing under the laws of the
State of Iowa, with its principal place of
business in Des Moines, Iowa, the publisher of

THE DES MOINES REGISTER

newspapers of general circulation printed
and published in the City of Des Moines,
Polk County, Iowa, and that an
advertisement, a printed copy of which is
attached as Exhibit "A" and made a part of
this affidavit, was printed and published in
The Des Moines Register on the following
dates

June 26, 2013

Maura Walsh
Legals Clerk

Subscribed and sworn to before me by said
affiant this 27 day of June 2013

Kevin Hargett
Notary Public in and for Polk County, Iowa





STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR
KIM REYNOLDS, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
CHUCK GIPP, DIRECTOR

DEPARTMENT OF NATURAL RESOURCES
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
NOTICE OF GENERAL PERMIT COVERAGE UNDER
GENERAL PERMIT NO. 2

STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY

This notice of general permit coverage for a storm water discharge associated with construction activity is issued pursuant to the authority of section 402 (b) of the Clean Water Act (U.S.C. 1342(b)), Iowa Code 455B.174, and subrule 567--64.4(2), Iowa Administrative Code. A Notice of Intent has been filed with the Iowa Department of Natural Resources that this storm water discharge complies with the terms and conditions of NPDES General Permit No. 2. Authorization is hereby issued to discharge storm water associated with industrial activity as defined in Part VIII of the Iowa Department of Natural Resources NPDES General Permit No. 2 in accordance with the terms and conditions set forth in the permit.

Owner: ACCURATE LAND CO., INC.
12035 UNIVERSITY AVE., STE 100
CLIVE IA 50325
(515)327-0800

Permit Coverage Issued To:
ACADIA SUBDIVISION - CONSTRUCTION

in URBANDALE, DALLAS COUNTY
located at

1/4 Section	Section	Township	Range
SE	14	79N	26W

Coverage Provided Through: 7/1/2016
NPDES Permit Discharge Authorization Number: 23817 - 23576
Discharge Authorization Date: 7/1/2013
Project Description: CONSTRUCTION OF SUBDIVISION 15.5 ACRES



CIVIL DESIGN ADVANTAGE L.L.C.

ENGINEERS, LANDSCAPE ARCHITECTS,
PLANNERS & SURVEYORS

March 21, 2016

Iowa Department of Natural Resources
Attn: Stormwater Coordinator
502 E. 9th Street
Des Moines, Iowa 50319-0034

RE: Acadia Subdivision
NPDES Permit
Authorization Number: 23817-23576

Dear Stormwater Coordinator;

An NPDES General Permit No. 2 was issued for Acadia in Urbandale on July 1, 2013. We would like to expand our disturbed acreage from 15.5 acres to a total of 80.4 acres. This additional disturbed area will be under the same ownership and is located directly south of the property previously permitted.

Please update the NPDES Permit and contact me at (515) 369-4400 if you have any questions or require anything further. Thanks.

Sincerely,

CIVIL DESIGN ADVANTAGE, LLC

Erin K. Ollendike, P.E.

cc: File

IOWA DEPARTMENT OF NATURAL RESOURCES

**NATIONAL POLLUTANT DISCHARGE ELIMINATION
SYSTEM (NPDES)**

GENERAL PERMIT NO. 2

EFFECTIVE DATES
OCTOBER 1, 2012 THROUGH OCTOBER 1, 2017

FOR

STORM WATER DISCHARGE ASSOCIATED WITH
CONSTRUCTION ACTIVITIES

NPDES GENERAL PERMIT NO. 2
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PART I. COVERAGE UNDER THIS PERMIT

- A. **PERMIT AREA** This permit covers all areas of the State of Iowa.

B. **ELIGIBILITY**

1. A. Except for discharges identified under Parts I.B.2. and I.B.3., this permit may authorize the discharge of storm water associated with industrial activity from construction sites, (those sites or common plans of development or sale that will result in the disturbance of one or more acres total land area), (hereafter referred to as storm water discharge associated with industrial activity for construction activities) occurring after the effective date of this permit (including discharges occurring after the effective date of this permit where the construction activity was initiated before the effective date of this permit), including storm water discharge associated with industrial activity from areas that are dedicated to producing earthen materials, such as soils, sand and gravel, for use at a single construction site.

B. This permit may authorize storm water discharge from a construction site that is mixed with storm water discharge associated with industrial activity from sources other than construction activities provided that the storm water discharge from the industrial (non-construction) source is in compliance with the terms of a NPDES general permit, other than this general permit, or individual permit authorizing such discharge. In addition, the storm water other than from construction, shall be in compliance with Part IV.D.6. of this permit.

2. **LIMITATIONS ON COVERAGE** The following storm water discharges associated with industrial activity for construction activities are **not** authorized by this permit:

A. storm water discharges that are mixed with sources of non-storm water other than discharges identified in Part III.A.2. of this permit;

B. storm water discharges associated with industrial activity for construction activities which are covered by an existing individual NPDES permit or which are issued a permit in accordance with Part I.C. of this permit.

Storm water discharges authorized by an existing individual NPDES permit will be eligible to apply for coverage under this general permit as the existing individual permit expires; and

C. storm water discharges associated with industrial activity for construction activities that the Iowa Department of Natural Resources has determined to be or may reasonably be expected to be contributing to a violation of a water quality standard.

D. new or expanded "storm water discharge associated with industrial activity" that discharges to Outstanding Iowa Waters or to Outstanding National Resource Waters.

3. **EXCLUSIONS** The following "storm water discharges associated with industrial activity" from construction activities do not require a NPDES permit:

discharges from agricultural and silvicultural activities including storm water runoff from orchards, cultivated crops, pastures, range lands, and forest lands, but not discharges from concentrated animal feeding operations as defined in 40 CFR 122.23, concentrated aquatic production facilities as defined in 40 CFR 122.24, discharges to aquaculture projects as defined in 40 CFR 122.25, and discharges from silvicultural point sources as defined in 40 CFR 122.27.

C. **REQUIRING AN INDIVIDUAL PERMIT**

1. The Department may require any person authorized by this permit to apply for and obtain an individual NPDES permit. The Department may require any owner or operator authorized to discharge under this permit to apply for an individual NPDES permit only if the owner or operator has been notified in writing that a permit application is required. This notice shall include a brief

statement of the reasons for this decision, an application form, a statement setting a deadline for the owner or operator to file the application, and a statement that on the effective date of the individual NPDES permit, coverage under this general permit shall automatically terminate. If an owner or operator fails to submit an individual NPDES permit application required by the Department under this paragraph, coverage of this general permit automatically is terminated at the end of the day specified for submittal of the individual NPDES application.

2. Any person authorized to discharge under this permit may apply for an individual NPDES permit. In such cases, the discharger shall submit the following in accordance with the requirements of subrule (567)--64.3(4) in the Iowa Administrative Code:
 - A. an individual application, using DNR Form 1 and EPA Form 2F, and,
 - B. all applicable fees identified in rule (567)--64.16 in the Iowa Administrative Code.
3. When an individual NPDES permit is issued to a discharger covered under this general permit, the applicability of this general permit to the individual NPDES permittee is automatically terminated on the effective date of the individual NPDES permit.

When an individual NPDES permit is denied to a discharger otherwise subject to this permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the date of such denial, unless otherwise specified by the Department.

D. AUTHORIZATION

A discharger must submit a Notice of Intent (NOI) in accordance with the requirements of Part II of this permit in order for storm water discharge associated with industrial activity for construction activities pursuant to Part I.B. of this permit to be authorized to discharge under this general permit.

PART II. NOTICE OF INTENT (NOI) REQUIREMENTS

A. DEADLINES FOR FILING A NOTICE OF INTENT

For storm water discharge associated with industrial activity for construction activities where construction begins after October 1, 1992, construction activities shall not commence until an authorization has been issued for the project by the Department.

- B. FAILURE TO NOTIFY** Dischargers who fail to notify the Department of their intent to be covered, and discharge pollutants to water of the United States within Iowa, without an NPDES permit, are in violation of the Clean Water Act and the Code of Iowa.

- C. CONTENTS OF THE NOTICE OF INTENT** A complete Notice of Intent shall include the items described in Parts II.C.1., II.C.2., and II.C.3. of this permit.

1. A completed Notice of Intent (NOI) form, DNR Form 542-1415, signed in accordance with Part VI.G. of this permit. The information on the form shall include the following:

A. Name, address, and location of the construction site for which this notification is submitted. The location should be provided as the 1/4 section, township, range, and the county in which the storm water discharge is located.

B. The owner's name, address, telephone number, and status (federal, state, private, public or other entity).

C. The name, address and telephone number of any operator (contractor) that has been identified as having a role in the storm water pollution prevention plan for the site required under Part IV.D.7. of this permit. Contractors (operators) identified after the submittal of the completed Notice of Intent shall be identified in the pollution prevention plan.

IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2
STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR CONSTRUCTION ACTIVITIES
EFFECTIVE DATE - OCTOBER 1, 2012 TO OCTOBER 1, 2017

D. The type of discharge (new or existing as related to October 1, 1992); whether or not the discharge is to a municipal separate storm sewer system; the date the discharge is to commence; the permit status of the discharge; and, the name of the receiving waters.

E. An indication if any existing quantitative data is available describing the concentration of pollutants in storm water discharges and a summary of available existing data. (Existing data should not be included as part of the NOI, it should retained as part of the Pollution Prevention Plan).

F. A brief description of the project; an estimated timetable for major activities; and, an estimate of the number of acres of the site on which soil will be disturbed.

G. A certification that compliance with G.(1). through G.(4). are met:

G.(1). the pollution prevention plan has been developed before this Notice of Intent is submitted to the Department;

G.(2). the pollution prevention plan will be implemented on October 1, 1992 for any existing storm water discharge associated with industrial activity for construction activities. For a storm water discharge associated with industrial activity for construction activities that commence after October 1, 1992, the pollution prevention plan shall be implemented with the start of construction activities;

G.(3). this Notice of Intent will be included and incorporated into the pollution prevention plan and will be updated as required; and,

G.(4). the storm water pollution prevention plan provides compliance with section 467A.64 of the Code of Iowa and local sediment and erosion plans and are consistent with the requirements of Part IV of this general permit.

2. APPLICABLE FEES The applicable fees specified in Iowa Administrative Code 567 -- 64.16(455B).

3. PUBLIC NOTIFICATION A demonstration that the public notice specified in Iowa Administrative Code 567--64.6(1)"c"(2) was published at least one day, in one newspaper with the largest circulation in the area in which the facility is located or the activity will occur.

D. WHERE TO SUBMIT Facilities which discharge storm water associated with industrial activity for construction activities must submit items described in Parts II.C.1., 2., and 3. of this permit to the Department at the following address:

Storm Water Coordinator
Iowa Department of Natural Resources
502 E. 9th St.
Des Moines, IA 50319-0034

E. RENOTIFICATION Prior to the expiration of an authorization issued under this general permit, the permittee is required to resubmit a Notice of Intent (no additional public notice is required) with the Department for coverage under the new general permit. If a new general permit has not been reissued prior to the expiration of the current permit, the provisions and coverage of the current permit are extended until replaced by the adoption of a new general permit.

F. TRANSFER OF COVERAGE UNDER THIS PERMIT For storm water discharge associated with industrial activity for construction activities where the ownership changes, the Department must be notified of the title transfer within 30 days. Both the previous owner(s) and the new owner(s) are responsible for notifying the Department of the transfer and the new owner's name and contact information. This requirement shall be satisfied upon the Department's receipt of the notification of this information by either the previous owner(s) or the new owner(s). If a storm water discharge associated with industrial activity for construction activities is covered by this general permit, the new

IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2
STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR CONSTRUCTION ACTIVITIES
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owner(s) shall be subject to all terms and conditions of this general permit. A copy of the notice of transfer that was sent to the Department shall be included in the pollution prevention plan. For construction activity which is part of a larger common plan of development such as a housing or commercial development project, if a permittee transfers ownership of all or any part of property subject to this permit, both the permittee and transferee shall be responsible for compliance with the provisions of this permit for that portion of the project which has been transferred including when the transferred property is less than one acre in area. If the new owner(s) agree in writing to be solely responsible for compliance with the provisions of this permit for the property which has been transferred, then the existing permittee(s) shall be relieved of responsibility for compliance with this permit for the transferred property, from and after the date the Department receives written notice of transfer of responsibility. A copy of the notice of transfer of responsibility shall be included in the pollution prevention plan.

G. NOTICE OF DISCONTINUATION

1. Within 30 days after final stabilization at a construction site (as defined in Part VIII of this permit), the operator or owner of the facility shall submit a Notice of Discontinuation to the Department.
2. The Notice of Discontinuation shall include the following information:
 - A. the name of the owner/operator to which the permit was issued;
 - B. the general permit number and permit authorization number;
 - C. the date the construction site reached final stabilization; and,
 - D. the following certification signed in accordance with Part VI.G. of this permit:

"I certify under penalty of law that disturbed soils at the identified facility have been finally stabilized and temporary erosion and sediment

control measures have been removed or will be removed at an appropriate time. I understand that by submitting this Notice of Discontinuation, that I am no longer authorized to discharge storm water associated with industrial activity for construction activities by Iowa Department of Natural Resources General NPDES Permit No. 2. and that discharging pollutants from storm water associated with industrial activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit."

PART III. SPECIAL CONDITIONS, MANAGEMENT PRACTICES, AND OTHER NON-NUMERIC LIMITATIONS

A. PROHIBITION ON NON-STORM WATER DISCHARGES

1. All discharges authorized by this permit shall be composed entirely of storm water except for non-storm discharges listed in Part III.A.2.
2. Discharges from fire fighting activities; fire hydrant flushings; waters used to wash vehicles in accordance with Part IV.D.2.C.(2).; potable water sources including waterline flushings; irrigation drainage; routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; springs; uncontaminated groundwater; and foundation or footing drains where flows are not contaminated with process materials such as solvents; may be authorized by this permit provided the non-storm water component of the discharge is in compliance with Part IV.D.5. of this permit.

B. RELEASES IN EXCESS OF REPORTABLE QUANTITIES Any owner or operator identified in the pollution prevention plan is subject to the spill notification requirements as specified in 455B.386 of the Iowa Code. Iowa law requires that as soon as possible but not more than six hours after the onset of

a "hazardous condition" the Department and local sheriff's office or the office of the sheriff of the affected county be notified.

The storm water pollution prevention plan described in Part IV of this permit must be modified within 5 calendar days of knowledge of the release to provide a description of the release and the circumstances leading to the release and to identify and provide for the implementation of steps to prevent the reoccurrence of such releases and to respond to such releases.

PART IV. STORM WATER POLLUTION PREVENTION PLANS

A storm water pollution prevention plan shall be developed for each construction site covered by this permit. Storm water pollution prevention plans shall be prepared in accordance with good engineering practices. The plan shall identify potential sources of pollution which may reasonably be expected to affect the quality of the storm water discharge from the construction activities. In addition, the plan shall describe and ensure the implementation of practices which will be used to reduce the pollutants in storm water discharge associated with industrial activity for construction activities at the construction site and to assure compliance with the terms and conditions of this permit. Facilities must implement the provisions of the storm water pollution prevention plan required under this part as a condition of this permit.

A. DEADLINES FOR POLLUTION PREVENTION PLAN PREPARATION AND COMPLIANCE

1. **POLLUTION PREVENTION PLAN PREPARATION DEADLINE** The pollution prevention plan shall be completed prior to the submittal of an NOI to the Department to be covered under this permit and shall be updated as appropriate.
2. **POLLUTION PREVENTION PLAN COMPLIANCE DEADLINE** The pollution prevention plan shall provide for compliance with the terms and schedule of the plan prior to the initiation of construction activities.

B. SIGNATURE AND PLAN REVIEW

1. The plan shall be signed in accordance with Part VI.G., and be retained at the construction site from the date construction activities begin to the date of final stabilization.
 2. The permittee shall make plans available to the Department upon request, or in the case of a storm water discharge associated with industrial activity for construction activities which discharge through a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system.
 3. The Department may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this Part. After such notification from the Department, the permittee shall make changes to the plan and shall submit to the Department a written certification that the requested changes have been made. Unless otherwise provided by the Department, the permittee shall have 3 business days after such notification to make the necessary changes.
 4. All storm water pollution prevention plans received by the Department from the permittee are considered reports that shall be available to the public under Section 308(b) of the CWA and Chapter 22 of the Code of Iowa. However, the permittee may claim any portion of a storm water pollution plan as confidential in accordance with Chapter 22 of the Code of Iowa and Iowa Administrative Code (561)--2.5.
- C. **KEEPING PLANS CURRENT** The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not been addressed in the plan or if the storm water pollution prevention plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified in Part IV.D.2. of this permit, or in otherwise achieving the general objectives of controlling pollutants in storm water discharge associated

with industrial activity for construction activities. In addition, the pollution prevention plan shall be updated to: expeditiously change the site map to include changes at the site, include contractors identified after the submittal of the Notice of Intent as Co-permittees, described in Part IV.D.7. of this permit; identify any change in ownership or transference of the permit and permit responsibilities; or, if required, by the occurrence of a hazardous condition (as defined in Part VIII of this permit). Amendments to the plan may be reviewed by the Department of Natural Resources in the same manner as Part IV.B.2.

D. CONTENTS OF THE POLLUTION PREVENTION PLAN. The storm water pollution prevention plan shall include the following items:

1. SITE DESCRIPTION Each plan shall provide a description of the following:

A. a description of the nature of the construction activity;

B. estimates of the total area of the site and the area of the site that is expected to be disturbed by excavation, grading, or other activities;

C. an estimate of the runoff coefficient of the site after construction activities are completed and existing data describing the soil or the quality of any discharge from the site;

D. a site map indicating drainage patterns and approximate slopes anticipated after major grading activities, areas of soil disturbance, the location of structural and nonstructural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands), and locations where storm water is discharged to a surface water; and

E. the name of the receiving water(s) and the ultimate receiving water(s).

2. CONTROLS Each plan shall include a description of controls that will be implemented at the construction site. The plan will clearly describe the intended sequence of major activities and for each activity, the appropriate control measures and the timing during the construction process that the measures will be implemented. (For example, perimeter controls for one portion of the site will be installed after the clearing and grubbing necessary for installation of the measure, but before the clearing and grubbing for the remaining portions of the site. Perimeter controls will be actively maintained until final stabilization of those portions of the site upward of the perimeter control. Temporary perimeter controls will be removed after final stabilization). The description of controls shall address the following minimum components:

A. EROSION AND SEDIMENT CONTROLS

A.(1). STABILIZATION PRACTICES A description of temporary and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans should ensure that existing vegetation is preserved where attainable and that disturbed areas are stabilized. Stabilization practices may include: temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Except as precluded by snow cover, stabilization measures shall be initiated on all disturbed areas as soon as practical but in no case where construction activity will not occur for a period of 21 or more calendar days later than the 14th day after no construction activity has occurred on such area. Where the initiation of stabilization measures by the 14th day after no construction activity occurs is precluded by snow cover, then stabilization measures shall be initiated as soon as practicable thereafter.

A.(2). STRUCTURAL PRACTICES A description of structural practices to the degree attainable, to divert flows from

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exposed soils, store flows or otherwise limit runoff from exposed areas of the site. Such practices may include silt fences, earth dikes, brush barriers, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. Structural practices should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA.

A.(2).(a). For common drainage locations that serve an area with more than 10 disturbed acres at one time, a temporary or permanent sediment basin providing 3,600 cubic feet of storage per acre drained shall be provided where attainable until final stabilization of the site has been achieved. The 3,600 cubic feet of storage area per acre drained does not apply to flows from offsite areas and flows from onsite areas that are either undisturbed or have undergone final stabilization where such flows are diverted around the sediment basin. For drainage locations which serve more than 10 disturbed acres at one time and where a temporary sediment basin providing 3,600 cubic feet of storage per acre drained is not attainable, sediment traps, silt fences, or equivalent sediment controls are required for all sideslope and downslope boundaries of the construction area.

A.(2).(b). For drainage locations serving 10 or fewer acres, sediment traps, silt fences or equivalent sediment controls are required for all sideslope and downslope boundaries of the construction area or a sediment basin providing for 3,600 cubic feet of storage per acre drained.

A.(2).(c). Unless infeasible, the following measures shall be implemented at all sites: utilize outlet structures that withdraw water from the surface when discharging from basins, provide and maintain natural buffers around surface waters, direct storm water to vegetated areas to increase sediment removal and maximize storm water infiltration and minimize soil compaction. Topsoil shall be

preserved at all construction sites unless land use precludes the practice. The requirement to preserve topsoil shall be met only when the depth of topsoil after soil disturbing activities have been completed and final stabilization achieved for the permitted activity is equal to, or greater than, 4.0 inches, including soil contained in sod, on all areas of the site where the surface of the ground disturbed for the permitted construction activities is exposed and not covered by concrete, asphalt, gravel or other such material and where 4.0 inches or more of topsoil existed prior to the commencement of soil disturbing activities that are permitted under the current permit authorization for the site. On areas where less than 4.0 inches of topsoil existed prior to the commencement of soil disturbing activities that are permitted under the current permit authorization for the site, the minimum depth of topsoil after soil disturbing activities have been completed and final stabilization achieved for the permitted activity shall be equal to, or greater than, the depth of topsoil that existed prior to the commencement of soil disturbing activities that are permitted under the current permit authorization for the site.

The final topsoil depth is to be measured after the soil has been compacted in a fashion generally considered adequate for an established lawn and so that the expected settling that will occur after measurement will be minimal and shall include the soil contained in any sod that has been placed on the site. The type of topsoil at the site after soil disturbing activities have been completed and final stabilization achieved for the permitted activity shall be similar to that which exists or existed in the general area of the site.

For construction activity which is part of a larger common plan of development, such as a housing or commercial development project, in which a new owner agrees in writing to be solely responsible for compliance with the provisions of this permit for the property which has been transferred or in which the new owner has obtained authorization under this permit for a lot or lots (as specified in subrule 567-64.6(6) of the Iowa Administrative Code), the topsoil preservation

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requirements described above must be met no later than at the time the lot or lots have reached final stabilization as described in this permit.

For sites where less than 4.0 inches of topsoil is to be in place after soil disturbing activities have been completed and final stabilization achieved for the permitted activity, a soil survey conducted by properly qualified personnel who regularly conduct soil surveys as part of their normal job duties must be conducted prior to commencement of soil disturbing activities that are permitted under the current permit authorization for the site. The results of the soil survey shall become part of the Pollution Prevention Plan and shall indicate the depth of topsoil at a suitable number of points on the site commensurate with standard engineering practices established for the size of the site.

The topsoil preservation requirement described above shall be implemented for projects that have not received an authorization under this permit prior to October 1, 2012. The topsoil preservation requirements are not required to be implemented for projects that have been authorized prior to October 1, 2012. In residential and commercial developments, a plat is considered a project. For other large areas that have been authorized for multiple construction sites, including those to be started at a future date, such as those located at industrial facilities, military installations and universities, a new construction project not yet surveyed and platted out is considered a project. This stipulation is intended to be interpreted as requiring the topsoil preservation requirements on development plats and construction activities on other extended areas that may have several construction projects permitted under the same authorization to be implemented on those projects not yet surveyed and platted out prior to October 1, 2012 even if other plats and construction activities in the same development or other extended area were authorized prior to October 1, 2012.

B. STORM WATER MANAGEMENT A description of measures that will be installed during construction to control pollutants in

storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the CWA. This permit only addresses the installation of storm water management measures, and not the ultimate operation and maintenance of such structures after the construction activities have been completed and the site has undergone final stabilization. Permittees are only responsible for the installation and maintenance of storm water management measures prior to final stabilization of the site, and are not responsible for maintenance after storm water discharges associated with industrial activity have been eliminated from the site.

B.(1). Such practices may include: storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; and infiltration of runoff onsite; and sequential systems (which combine several practices). A goal of 80 percent removal of total suspended solids from those flows which exceed predevelopment levels should be used in designing and installing storm water management controls (where practicable). Where this goal is not met, the permittee shall provide justification for rejecting each practice based on site conditions.

B.(2). Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g. maintenance of hydrologic conditions present prior to the initiation of construction activities).

C. OTHER CONTROLS

C.(1). WASTE DISPOSAL All wastes composed of building materials must be removed from the site for disposal in permitted disposal facilities. No building material wastes or unused building materials

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shall be buried, dumped, or discharged at the site.

C.(2). Off-site vehicle tracking of sediments shall be minimized.

C.(3). The plan shall ensure and demonstrate compliance with applicable State or local waste disposal, sanitary sewer or septic system regulations.

D. APPROVED STATE OR LOCAL PLANS

Facilities which discharge storm water associated with industrial activity for construction activities must include in their storm water pollution prevention plan procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by State or local officials. Applicable requirements specified in sediment and erosion plans, site permits or storm water management plans approved by State or local officials that are applicable to protecting surface water resources are, upon submittal of an NOI to be authorized to discharge under this permit, incorporated by reference and are enforceable under this permit even if they are not specifically included in a storm water pollution prevention plan required under this permit.

Operators of facilities seeking alternative permit requirements shall submit an individual permit application in accordance with Part I.C.2. of this permit along with a description of why requirements in approved State or local plans should not be applicable as a condition of an NPDES permit.

3. **MAINTENANCE** A description of procedures to maintain in good and effective operating conditions vegetation, erosion and sediment control measures and other protective measures identified in the site plan.
4. **INSPECTIONS** Qualified personnel (provided by the discharger) shall inspect disturbed areas of the construction site that have not been stabilized with a perennial, vegetative cover of sufficient density to preclude erosion at least once every seven calendar days. Unless erosion is evident or other conditions

warrant them, regular inspections are not required on areas that have been stabilized with a perennial, vegetative cover of sufficient density to preclude erosion.

A. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.

B. Based on the results of the inspection, the description of potential pollutant sources identified in the plan in accordance with paragraph IV.D.1. of this permit and pollution prevention measures identified in the plan in accordance with paragraph IV.D.2. of this permit shall be revised as appropriate as soon as practicable after such inspection. Such modifications shall provide for implementation of any changes to the plan within 7 calendar days following the inspection.

C. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with paragraph IV.D.4.B. of the permit shall be made and retained as part of the storm water pollution prevention plan for at least three years after final stabilization has been achieved and a Notice of Discontinuation has been submitted to the Department. The report shall be signed in accordance with Part VI.G. of this permit.

5. **NON-STORM WATER DISCHARGES** Except for flows from fire fighting activities, sources of non-storm water listed in Part III.A.2. of this permit that are combined with storm

water discharges associated with industrial activity from construction activities must be identified in the plan. The plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

6. **ADDITIONAL REQUIREMENTS FOR STORM WATER DISCHARGE FROM INDUSTRIAL ACTIVITIES OTHER THAN CONSTRUCTION, INCLUDING DEDICATED ASPHALT PLANTS, AND DEDICATED CEMENT PLANTS** This permit may only authorize a storm water discharge associated with industrial activity from a construction site that is mixed with a storm water discharge from an industrial source other than construction, where:

A. the industrial source other than construction is located on the same site as the construction activity;

B. storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of this permit; and,

C. storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring (including storm water discharges from dedicated asphalt plants and dedicated cement plants) are in compliance with the terms and conditions, including applicable NOI or application requirements, of a different NPDES general permit or individual permit authorizing such discharges.

7. **CONTRACTORS**

A. The storm water pollution prevention plan must clearly identify for each measure in the plan, the contractor(s) and/or subcontractor(s) that will implement the measure. All contractors and subcontractors identified in the plan must sign a copy of the certification statement in Part IV.D.7.B. of this permit in accordance with Part VI.G. of this permit. Upon signing the certification, the contractor or sub-contractor is a co-permittee with the

owner and other co-permittee contractors. All certifications must be included in the storm water pollution prevention plan.

B. CERTIFICATION STATEMENT All contractors and subcontractors identified in a storm water pollution prevention plan in accordance with Part IV.D.7.A. of this permit shall sign a copy of the following certification statement before conducting any professional service at the site identified in the storm water pollution prevention plan:

"I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site as part of this certification. Further, by my signature, I understand that I am becoming a co-permittee, along with the owner(s) and other contractors and subcontractors signing such certifications, to the Iowa Department of Natural Resources NPDES General Permit No. 2 for "Storm Water Discharge Associated with Industrial Activity for Construction Activities" at the identified site. As a co-permittee, I understand that I, and my company, are legally required under the Clean Water Act and the Code of Iowa, to ensure compliance with the terms and conditions of the storm water pollution prevention plan developed under this NPDES permit and the terms of this NPDES permit."

The certification must include the name and title of the person providing the signature; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification is made.

PART V. RETENTION OF RECORDS

- A. The permittee shall retain copies of storm water pollution prevention plans and all reports required by this permit, and records of all data used to complete the Notice of Intent to be covered by this permit, for a period of at

least three years from the date that the site is finally stabilized and a Notice of Discontinuation has been submitted to the Department.

- B. If there is a construction trailer, shed or other covered structure located on the property the permittee shall retain a copy of the storm water pollution prevention plan required by this permit at the construction site from the date of project initiation to the date of final stabilization. If there is no construction trailer, shed or other covered structure located on the property, the permittee shall retain a copy of the plan at a readily available alternative site approved by the Department and provide it for inspection upon request. If the plan is maintained at an off-site location such as a corporate office, it shall be provided for inspection no later than three hours after being requested.
- C. ADDRESSES All written correspondence to the Department should be sent to the following address:

Storm Water Coordinator
Iowa Department of Natural Resources
502 E. 9th St.
Des Moines, IA 50319-0034

PART VI. STANDARD PERMIT CONDITIONS

A. DUTY TO COMPLY

1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Code of Iowa and the Clean Water Act and is grounds for enforcement action; for termination of coverage under this general permit; or, for denial of a request for coverage under a reissued general permit.
2. TOXIC POLLUTANTS The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act (CWA) for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even

if this permit has not yet been modified to incorporate the requirement.

- B. CONTINUATION OF THE EXPIRED GENERAL PERMIT This permit expires on October 1, 2017. An expired general permit continues in force until replaced by adoption of a new general permit.
- C. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- D. DUTY TO MITIGATE The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- E. DUTY TO PROVIDE INFORMATION The permittee shall furnish to the Department, within three hours, any information which the Department may request to determine compliance with this permit. The permittee shall also furnish to the Department upon request copies of records required to be kept by this permit.
- F. OTHER INFORMATION When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the Notice of Intent or in any other report to the Department, he or she shall promptly submit such facts or information.

- G. SIGNATORY REQUIREMENTS All Notices of Intent, storm water pollution prevention plans, reports, certifications or information either submitted to the Department or the operator of a municipal separate storm sewer system, or that this permit requires be maintained by the permittee, shall be signed in accordance with rule 567--64.3(8) of the Iowa Administrative Code as follows:

64.3(8) *Identity of signatories of operation permit applications.* The person who signs

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the application for an operation permit shall be:

- a. *Corporations.* In the case of corporations, a principal executive officer of at least the level of vice-president.
- b. *Partnerships.* In the case off a partnership, a general partner.
- c. *Sole proprietorships.* In the case of a sole proprietorship, the proprietor.
- d. *Public facilities.* In the case of a municipal, state, or other public facility, by either the principal executive officer, or the ranking elected official.
- e. *Storm water discharge associated with industrial activity from construction activity.* In the case of a storm water discharge associated with industrial activity from construction as identified in 40 CFR 122.26(b)(14)(x), either the owner of the site or the general contractor.

The person who signs NPDES reports shall be the same, except that in the case of a corporation or a public body, monitoring reports required under the terms of the permit may be submitted by the person who is responsible for the overall operation of the facility from which the discharge originated.

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- H. **CERTIFICATION** Any person signing documents under paragraph VI.G. shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are

significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

- I. **OIL AND HAZARDOUS SUBSTANCE LIABILITY**

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under section 311 of the Clean Water Act.

- J. **PROPERTY RIGHTS** The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

- K. **SEVERABILITY** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

- L. **TRANSFERS** This permit is not transferable to any person except after notice to the Department. The Department may require the discharger to apply for and obtain an individual NPDES permit as stated in Part I.C.

- M. **PROPER OPERATION AND MAINTENANCE** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the requirements of storm water pollution prevention plans. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions or this permit.

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N. **INSPECTION AND ENTRY** The permittee shall allow the Department or an authorized representative of EPA, the State, or, in the case of a facility which discharges through a municipal separate storm sewer, an authorized representative of the municipal operator or the separate storm sewer receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;

2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and,

3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment).

O. **PERMIT ACTIONS** Coverage under this permit may be terminated for cause. The filing of a request by the permittee for a permit discontinuance, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

P. **ENVIRONMENTAL LAWS** No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

PART VII. REOPENER CLAUSE

If there is evidence indicating potential or realized impacts or water quality due to any storm water discharge associated with industrial activity for construction activities covered by this permit, the owner or operator of such discharge may be required to obtain individual permit in accordance with Part I.C of this permit.

PART VIII. DEFINITIONS

"Best Management Practices" ("BMPs") means schedules of activities, prohibitions of

practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

"Construction site" means a site or common plan of development or sale on which construction activity, including clearing, grading and excavating, results in soil disturbance. A construction site is considered one site if all areas of the site are contiguous with one another and one entity owns all areas of the site.

"CWA" or "Clean Water Act" means the Federal Water Pollution Control Act.

"Dedicated portable asphalt plant" means a portable asphalt plant that is located on or contiguous to a construction site and that provides asphalt only to the construction site that the plant is located on or adjacent to.

"Dedicated portable concrete plant" means a portable concrete plant that is located on or contiguous to a construction site and that provides concrete only to the construction site that the plant is located on or adjacent to.

"Dedicated sand or gravel operation" means an operation that produces sand and/or gravel for a single construction project.

"Department" means the Iowa Department of Natural Resources.

"Final Stabilization" means that all soil disturbing activities at the site have been completed, and that a uniform perennial vegetative cover with a density of 70% for the area has been established or equivalent stabilization measures have been employed or which has been returned to agricultural production.

"Hazardous condition" means any situation involving the actual, imminent, or probable spillage, leakage, or release of a hazardous substance on to the land, into a water of the state, or into the atmosphere, which creates an immediate or potential danger to the

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public health or safety or to the environment.
455B.381(2) 1991, Code of Iowa

"Hazardous substance" means any substance or mixture of substances that presents a danger to the public health or safety and includes, but is not limited to, a substance that is toxic, corrosive, or flammable, or that is an irritant or that, in confinement, generates pressure through decomposition, heat, or other means. The following are examples of substances which, in sufficient quantity may be hazardous: acids; alkalis; explosives; fertilizers; heavy metals such as chromium, arsenic, mercury, lead and cadmium; industrial chemicals; paint thinners; paints; pesticides; petroleum products; poisons, radioactive materials; sludges; and organic solvents. "Hazardous substances" may include any hazardous waste identified or listed by the administrator of the United State Environmental Protection Agency under the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976, or any toxic pollutant listed under section 307 of the federal Water Pollution Control Act as amended to January 1, 1977, or any hazardous substance designated under section 311 of the federal Water Pollution Control Act as amended to January 1, 1977, or any hazardous material designated by the secretary of transportation under the Hazardous Materials Transportation Act (49 CFR 172.101). 455B.381(1), 1991 Code of Iowa

"Municipality" means a city, town, borough, county, parish, district, association, or other public body created by or under State law.

"NOI" means Notice of Intent to be covered by this permit (see Part II of this permit.)

"Outstanding Iowa Waters" means those waters which constitute an outstanding state resource such as waters of exceptional recreational or ecological significance. These waters are identified in Appendix B of the Iowa Antidegradation Implementation Procedure manual.

"Outstanding National Resource Waters" means those waters which constitute an outstanding national resource such as waters of national and state parks and wildlife refuges and also waters of exceptional recreational or ecological significance. These waters are identified in Appendix B of the

Iowa Antidegradation Implementation Procedure manual.

"Permittee" means the owner of the facility or site.

"Qualified personnel" means those individuals capable enough and knowledgeable enough to perform the required functions adequately well to ensure compliance with the relevant permit conditions and requirements of the Iowa Administrative Code.

"Runoff coefficient" means the fraction of total rainfall that will appear at the conveyance as runoff.

"Storm Water" means storm water runoff, snow melt runoff, and surface runoff and drainage.

"Storm water discharge associated with industrial activity" means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. The term does not include discharges from facilities or activities excluded from the NPDES program under 40 CFR part 122. For the categories of industries identified in paragraphs (i) through (x) of this definition, the term includes, but is not limited to, storm water discharges from industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process waste waters (as defined at 40 CFR part 401); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and finished products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water.

For the categories of industries identified in paragraph (xi) of this definition, the term includes only storm water discharges from all the areas (except access roads and rail lines) that are listed in the previous sentence where material handling

IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2
STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR CONSTRUCTION ACTIVITIES
EFFECTIVE DATE - OCTOBER 1, 2012 TO OCTOBER 1, 2017

equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water. For the purposes of this paragraph, material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product, or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with storm water drained from the above described areas. Industrial facilities (including industrial facilities that are Federally, State, or municipally owned or operated that meet the description of the facilities listed in these paragraphs (i)-(xi) of the definition) include those facilities designated under 40 CFR 122.26(a)(1)(v). The following categories of facilities are considered to be engaging in "industrial activity" for purposes of this definition;

(i) Facilities subject to storm water effluent limitations guidelines, new source performance standards, or toxic pollutant effluent standards under 40 CFR Subchapter N (except facilities with toxic pollutant effluent standards which are exempted under category (xi) of this definition);

(ii) Facilities classified as Standard Industrial Classifications 24 (except 2434), 26 (except 265 and 267), 28 (except 283 and 285), 29, 311, 32 (except 323), 33, 3441, 373;

(iii). Facilities classified as Standard Industrial Classifications 10 through 14 (mineral industry) including active or inactive mining operations (except for areas of coal mining operations no longer meeting the definition of a reclamation area under 40 CFR 434.11(1) because the performance bond issued to the facility by the appropriate SMCR authority has been released, or except for areas of non-coal mining operations which have been released from applicable State or Federal reclamation requirements after December 17, 1990) and oil and gas exploration, production, processing, or treatment operations, or transmission facilities that discharge storm water contaminated by contact with or that has come into contact with, any overburden, raw material, intermediate products, finished products, byproducts or waste products located on the site of such operations; (inactive mining

operations are mining sites that are not being actively mined, but which have an identifiable owner/operator; inactive mining sites do not include sites where mining claims are being maintained prior to disturbances associated with the extraction, beneficiation, or processing of mined materials, nor sites where minimal activities are undertaken for the sole purpose of maintaining a mining claim);

(iv) Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under Subtitle C of RCRA;

(v) Landfills, land application sites, and open dumps that receive or have received any industrial wastes (waste that is received from any of the facilities described under this subsection) including those that are subject to regulation under Subtitle D of RCRA;

(vi) facilities involved in the recycling of materials, including metal scrap yards, battery reclaimers, salvage yards, and automobile junkyards, including but limited to those classified as Standard Industrial Classification 5015 and 5093;

(vii) Steam electric power generating facilities, including coal handling sites;

(viii) Transportation facilities classified as Standard Industrial Classifications 40, 41, 42 (except 4221-4225), 43, 44, 45 and 5171 which have vehicle maintenance shops, equipment cleaning operations, or airport deicing operations. Only those portions of the facility that are either involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, airport deicing operations, or which are otherwise identified under paragraphs (i)-(vii) or (ix)-(xi) of this definition are associated with industrial activity;

(ix) Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 mgd or more, or required to have an approved pretreatment program under 40 CFR 403. Not

IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2
STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR CONSTRUCTION ACTIVITIES
EFFECTIVE DATE - OCTOBER 1, 2012 TO OCTOBER 1, 2017

included are farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with 40 CFR 503;

(x) Construction activity including clearing, grading and excavation activities except: operations that result in the disturbance of less than one acre of total land area which are not part of a larger common plan of development or sale;

(xi) Facilities under Standard Industrial Classifications 20, 21, 22, 23, 2434, 25, 265, 267, 27, 283, 285, 30, 31 (except 311), 323, 34 (except 3441), 35, 36, 37 (except 373), 38, 39, 4221-4225, (and which are not otherwise included within categories (ii)-(x));

"Storm water discharge associated with industrial activity for construction activities" means activities that fall under subparagraph (x) in the definition of storm water discharge associated with industrial activity.

"Topsoil" means the fertile, uppermost part of the soil containing significant organic matter largely devoid of debris and rocks and often disturbed in cultivation.

"Uncontaminated groundwater" means water that is potable for humans, meets the narrative water quality standards in subrule 567-61.3(2) of the Iowa Administrative Code, contains no more than half the listed concentration of any pollutants in subrule 567-61.3(3) of the IAC, has a pH of 6.5-9.0 and is located in soil or rock strata.

FINAL STABILIZATION AND NOTICE OF DISCONTINUATION

- A. The storm water discharge from a construction activity is no longer considered to be a discharge subject to the storm water permit requirements when final stabilization has been reached and temporary erosion and sediment controls have been or will be removed. A permittee must submit a Notice of Discontinuation (NOD) to inform the Iowa Department of Natural Resources (IDNR) that storm water discharge no longer needs to be covered by the general permit.
- B. Final stabilization is defined in the general permit as meaning that all soil disturbing activities at the site have been completed, and that a uniform perennial vegetative cover for unpaved areas not covered by permanent structures has been established or equivalent permanent stabilization measures have been employed.
- C. The original SWPPP and all regulatory correspondence shall be retained by the Owner for a period of three (3) years after the completion of final stabilization of the site and the NOD.
- D. The Notice of Discontinuation should be filled out by the Owner and mailed to the following address:

Storm Water Coordinator
Iowa Department of Natural Resources
502 E. 9th Street
Des Moines, Iowa 50319-0034

FINAL STABILIZATION AND NOTICE OF DISCONTINUATION

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Storm Water Coordinator
Iowa Department of Natural Resources
502 E. 9th Street
Des Moines, Iowa 50319-0034

NOTICE OF DISCONTINUATION
OF A STORM WATER DISCHARGE
COVERED UNDER IOWA NPDES GENERAL PERMIT NO. 2
FOR CONSTRUCTION ACTIVITIES

Name of the owner or facility to which the storm water discharge general permit coverage was issued.

Acadia Subdivision

County: Dallas

List the complete permit authorization number for the discharge. This number is provided on the bottom of the authorization sheet.

IA - 23817 --- 23576

List the date the construction site reached final stabilization as defined on the back of this form.

The following certification must be signed in accordance with the signatory requirements of the general permit (see back side).

I certify under penalty of law that disturbed soils at the identified facility have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time. I understand that by submitting this Notice of Discontinuation, I am no longer authorized to discharge storm water associated with industrial activity for construction activities by Iowa Department of Natural Resources NPDES General Permit No. 2 and that discharging pollutants from storm water associated with industrial activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by an NPDES permit.

I further certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.

Name (print) _____ Title

Signature _____ Date

Return to:

Storm Water Coordinator
Department of Natural Resources
502 E. 9th Street
Des Moines, IA 50319-0034

Final Stabilization means that all soil disturbing activities at the site have been completed and that a uniform perennial vegetative cover for the area has been established or equivalent stabilization measures have been employed. All building must be completed before the project is considered finally stabilized.

SIGNATORY REQUIREMENTS All Notices of Intent, storm water pollution prevention plans, reports, certifications or information either submitted to the Department or the operator of a large or medium municipal separate storm sewer system, or that this permit requires be maintained by the permittee, shall be signed in accordance with rule 567--64.3(8) of the Iowa Administrative Code as follows:

64.3(8) *Identity of signatories of operation permit applications.* The person who signs the application for an operation permit shall be:

- a. *Corporations.* In the case of corporations, a principal executive officer of at least the level of vice-president.
- b. *Partnerships.* In the case of a partnership, a general partner.
- c. *Sole proprietorships.* In the case of a sole proprietorship, the proprietor.
- d. *Public facilities.* In the case of a municipal, state, or other public facility, by either the principal executive officer, or the ranking elected official.
- e. *Storm water discharge associated with construction activity.* In the case of a storm water discharge associated with industrial activity from construction as identified in 40 CFR 122.26(b)(14)(x), either the owner of the site or the general contractor.

PROJECTED CONSTRUCTION SCHEDULE

Initial Preparation of Site:

(Perimeter silt fencing and other temporary erosion control installation)

Contractor:	
Projected Start Date:	
Projected Completion Date:	
Actual Start Date:	
Actual Completion Date:	

Initial Grading Operations:

(Clearing and Grubbing, strip and stockpile topsoil)

Contractor:	
Projected Start Date:	
Projected Completion Date:	
Actual Start Date:	
Actual Completion Date:	

Mass Grading Operations:

(Rough grading and installation of sediment control)

Contractor:	
Projected Start Date:	
Projected Completion Date:	
Actual Start Date:	
Actual Completion Date:	

Installation of Underground Utilities:

Contractor:	
Projected Start Date:	
Projected Completion Date:	
Actual Start Date:	
Actual Completion Date:	

Subgrade Preparation:

Contractor:	
Projected Start Date:	
Projected Completion Date:	
Actual Start Date:	
Actual Completion Date:	

Paving Operations:

Contractor:	
Projected Start Date:	
Projected Completion Date:	
Actual Start Date:	
Actual Completion Date:	

Final Backfill and Grading Operations:

Contractor:	
Projected Start Date:	
Projected Completion Date:	
Actual Start Date:	
Actual Completion Date:	

Seeding and Final Stabilization:

(Final seeding, sod placement, temporary erosion control removal)

Contractor:	
Projected Start Date:	
Projected Completion Date:	
Actual Start Date:	
Actual Completion Date:	

Franchise Utilities:

Contractor:	
Projected Start Date:	
Projected Completion Date:	
Actual Start Date:	
Actual Completion Date:	

Operators Log

Project Name: Acadia Plat 2 – Urbandale, IA

SWPPP Contact: Kevin Johnson – Accurate Land CO, LLC

[illegible]

Contractor/Subcontractor Certification Statement

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

NPDES Permit Authorization Number: 23817-23576

Project Title: Acadia Plat 2

Operator(s): _____

As a contractor or subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each contractor and subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site as part of this certification. Further, by my signature, I understand that I am becoming a co-permittee, along with the owner(s) and other contractors and subcontractors signing such certifications, to NPDES General Permit No. 2 for "Storm Water Discharge Associated with Industrial Activity for Construction Activities" at the identified site. As a co-permittee, I understand that I, and my company, are legally required under the Clean Water Act and the Code of Iowa, to ensure compliance with the terms and conditions of the storm water pollution prevention plan developed under this NPDES permit and the terms of this NPDES permit.

This certification is hereby signed in reference to the above named project:

Company: _____

Address: _____

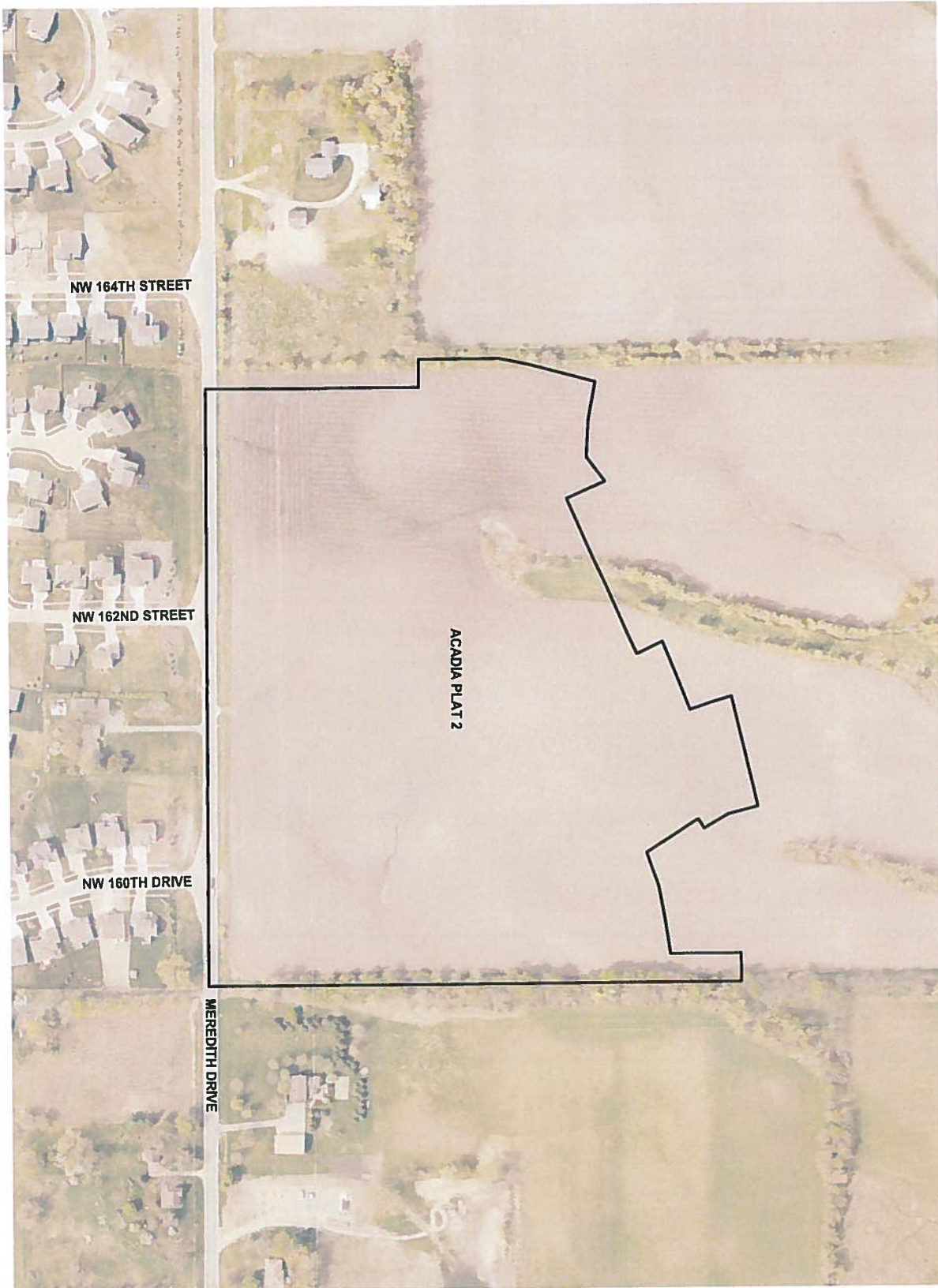
Telephone Number: _____

Type of construction service to be provided: _____

Signature: _____

Title: _____

Date: _____



**ACADIA PLAT 2
AERIAL MAP**

URBANDALE IOWA



CIVIL DESIGN ADVANTAGE

3405 S E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410

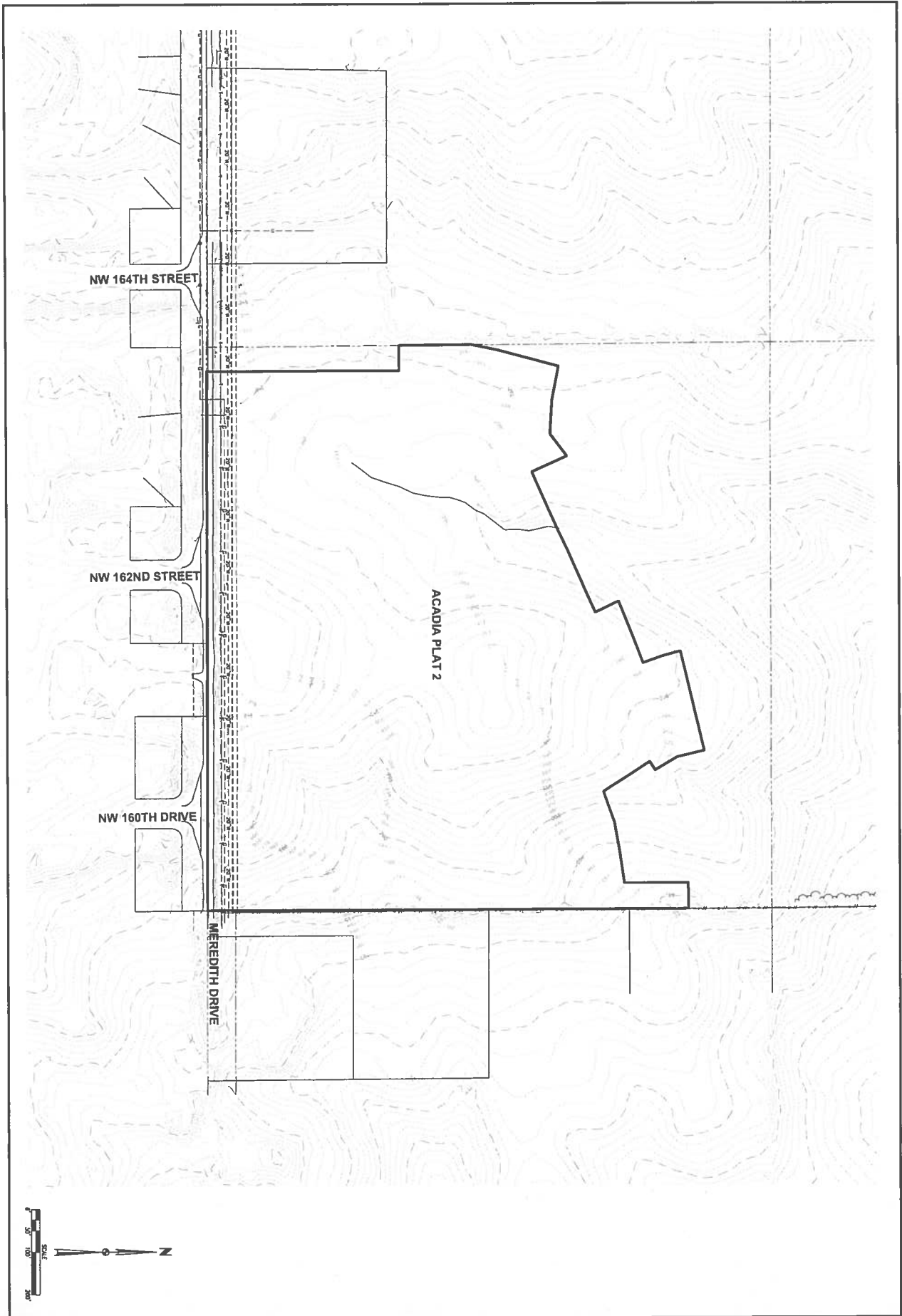
ENGINEER:

TECH: BAK

REVISION	DATE

1. PREPARED BY: SUBMITTAL

02/27/15

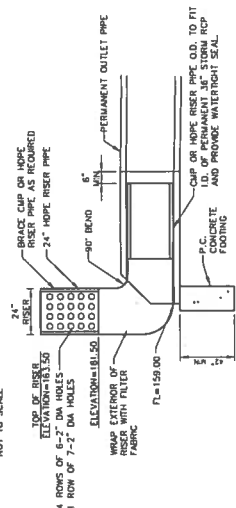


EROSION AND SEDIMENT CONTROL PLAN

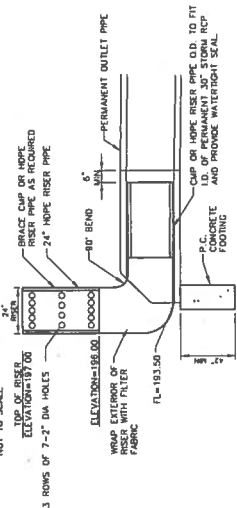
VICINITY 1



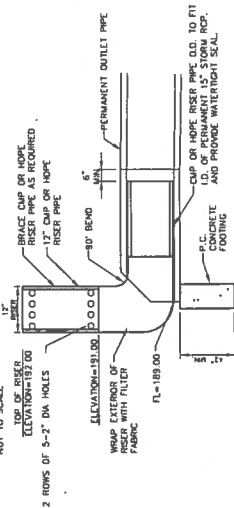
TEMPORARY STAND PIPE #3A DETAIL



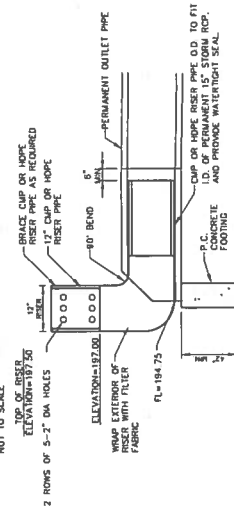
TEMPORARY STAND PIPE #3B DETAIL



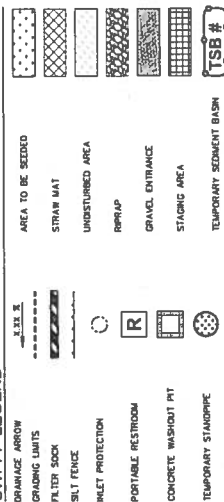
TEMPORARY STAND PIPE #58 DETAIL



TEMPORARY STAND PIPE #6 DETAIL



SWPPP LEGEND



DISCHARGE POINT SUMMARY

DISCHARGE POINT IS TO AN UNMANNED THERMIST OF WILMIST CREEK + 200 FT
TOTAL AREA DEDUCTED TO DISCHARGE POINT
STORAGE VOLUME REQUIRED (9 ACRES=3600 CU FT)
VOLUME PROVIDED IN SILT FENCE (452 LF @ AN AVE 18.2 CU FT/LF OF FENCE)
TOTAL VOLUME PROVIDED 7,322 CU FT
1.18 ACRES
4,284 CU FT
7,322 CU FT
7,322 CU FT

DISCHARGE POINT #2 TO AN UNNAMED TREATMENT OF WALNUT CREEK ±100 FT

TOTAL AREA OBTAINABLE TO DISCHARGE POINT	22,012 CU FT
STORAGE VOLUME REQUIRED (# OF ACRES*3400 CU FT)	22,012 CU FT
VOLUME PROVIDED IN SILT FENCE (1411 LF @ AN AVG. 15.6 CU FT/LF OF FENCE)	22,012 CU FT
TOTAL VOLUME PROVIDED	22,012 CU FT

DISCHARGE POINT A1 DIRECTLY INTO AN UNARMED TRESKARY OF WALNUT CRICK

TOTAL AREA ACQUIRED TO DISCHARGE PUMP	38.84 ACRES		
STORAGE VOLUME REQUIRED (6 OF ACRES=3600 CU FT)	137,904 CU FT		
VOLUME PROVIDED IN ONE FENCE	84,217 CU FT	CU FT OF FENCE	
VOLUME PROVIDED IN TWO FENCES	168,434 CU FT		
VOLUME PROVIDED IN THREE FENCES	252,651 CU FT		
TOTAL VOLUME PROVIDED	135,984 CU FT		

DISCHARGE POINT #4 TO AN UNNAMED TRIBUTARY OF WALNUT CREEK - 150 FT.

4.28 ACRES	13,468 CU FT	15,854 CU FT	13,854 CU FT
TOTAL AREA DISTURBED TO DISCHARGE PUMPS			
STORAGE VOLUME REQUIRED (8 OF ACRES @ 3500 CU FT)			
VOLUME PROVIDED IN S&T FENCE (1,004 LF @ AN AVG. 14.9 CU FT/LF OF FENCE)			
TOTAL VOLUME PROVIDED			

DISCHARGE POINT #3 TO AN UNNAMED TRIBUTARY OF WALNUT CREEK ± 800 FT

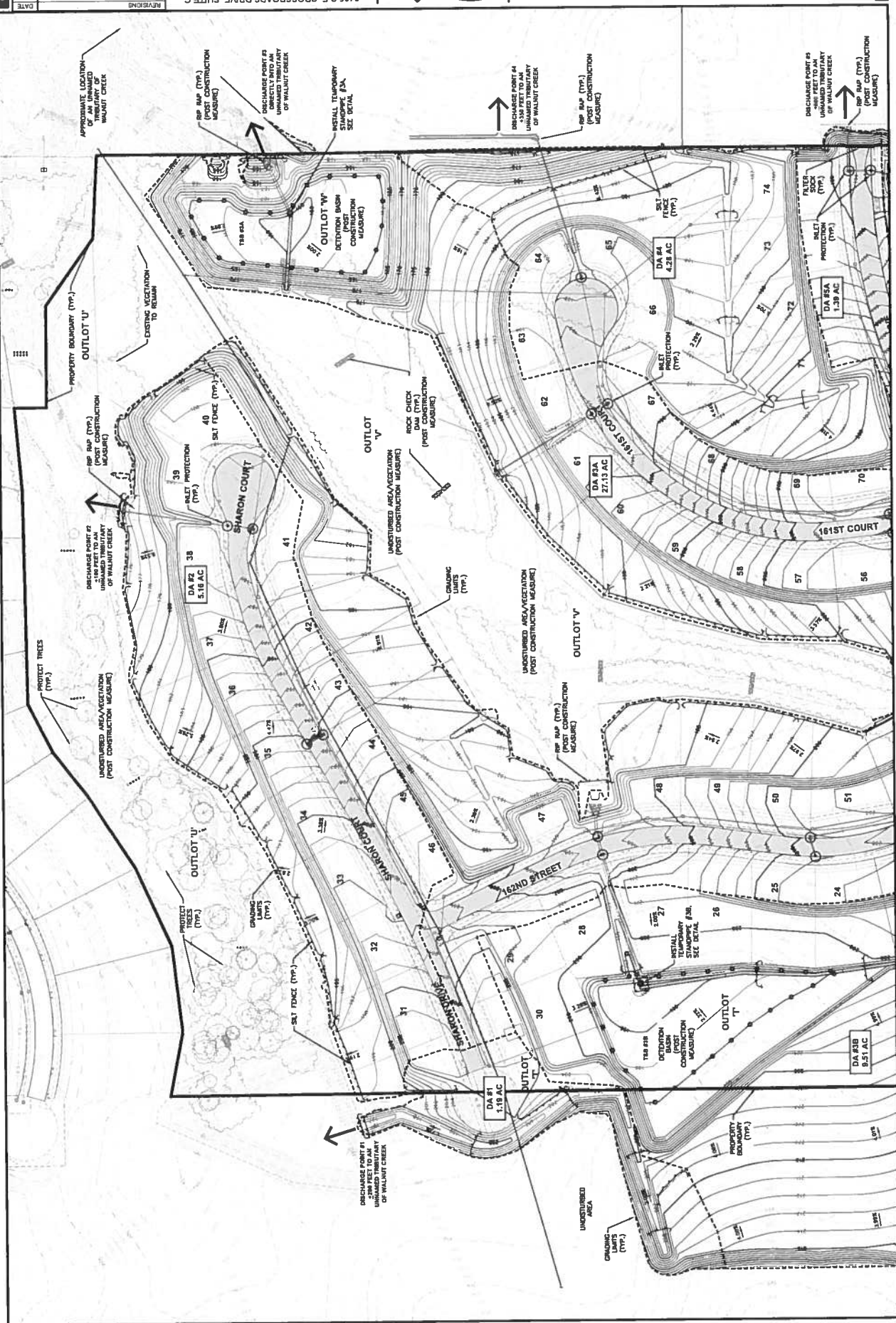
TOTAL AREA DISTURBED TO DISCHARGE POINT	VOLUME PRODUCED IN PLOT 500K (40 LF \times 2.0 CU FT/AF)	80 CU FT
STORAGE VOLUME REQUIRED (1/3 OF ACRE/3-MOOD CU FT)	VOLUME PRODUCED IN 2nd FENCE (800 LF \times AN AVE 4.5 CU FT/AF OF FENCE)	3,600 CU FT
	VOLUME PRODUCED IN 3rd FENCE (200 LF \times AN AVE 4.5 CU FT/AF OF FENCE)	900 CU FT
	TOTAL VOLUME PRODUCED AND MARKED	77,363 CU FT
		77,363 CU FT

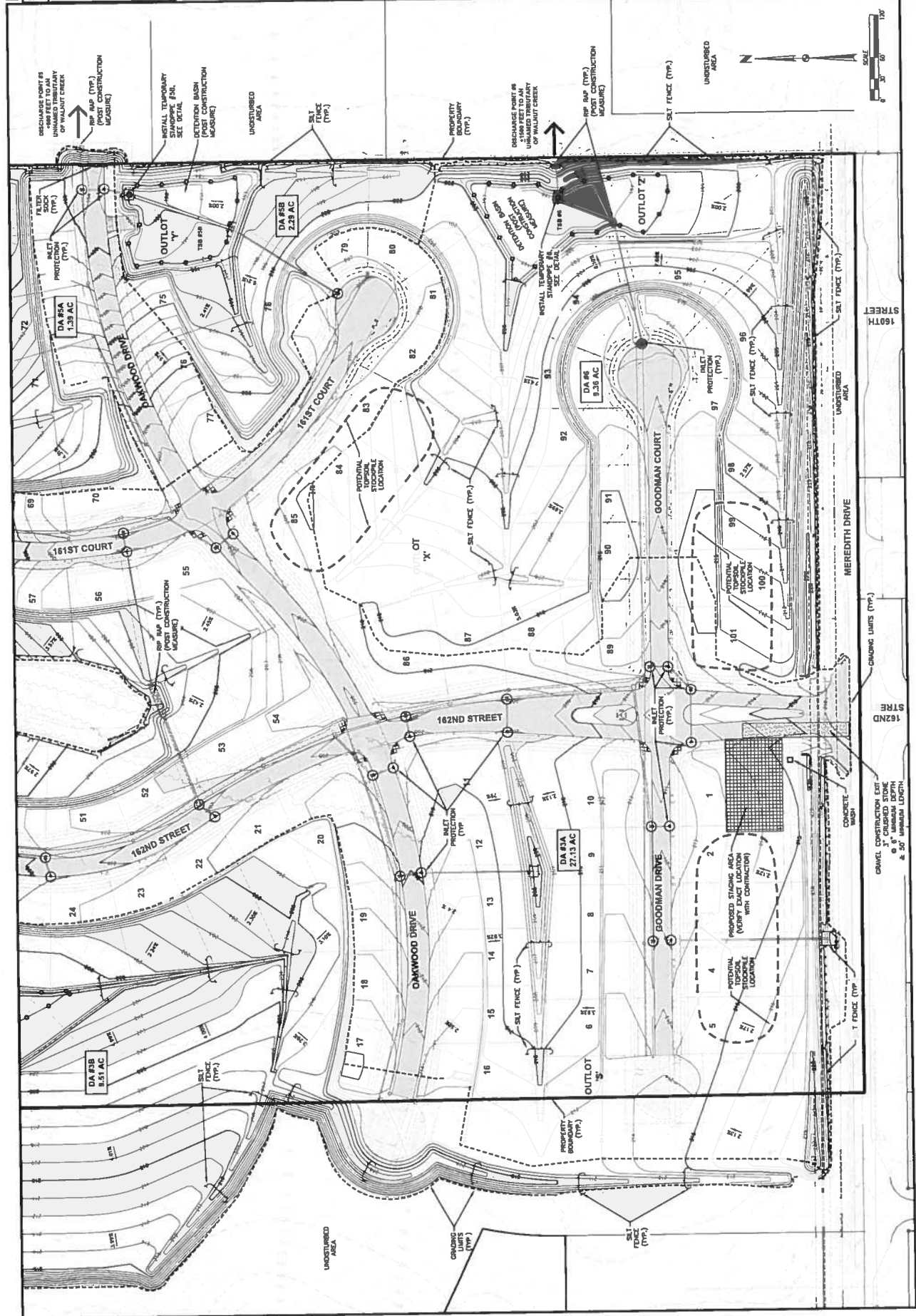
~~DISCHARGE POINT AS TO AN UNMANNED THERMIST OF WALNUT CREEK #1500 FT~~

TOTAL AREA DESTROYED TO UNDESIRABLE PLANTS	33,098 CU FT
TOTAL VOLUME PROVIDED IN SILV FENCE (1,822 LF @ AN AVG. 4.5 CU FT/LF OF FENCE)	8,199 CU FT
VOLUME PROVIDED IN T59 P	30,832 CU FT
TOTAL VOLUME PROVIDED	39,031 CU FT

STABILIZATION QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
1	SALT FORMS	LF	9,072
2	FLYER BOOK	LF	40
3	SKIDING, FATHOMING, AND BALLOONING	AC	5513
4	SALT PRODUCTION DEVICES	EA	37
5	COMPOSITE WASHOUT KIT	EA	1
6	13" CAP/MODE THERMOSTAT STADIUM	EA	2







CIVIL DESIGN ADVANTAGE

3405 SE Crossroads Dr., SUITE G GRIMES, IA 50111

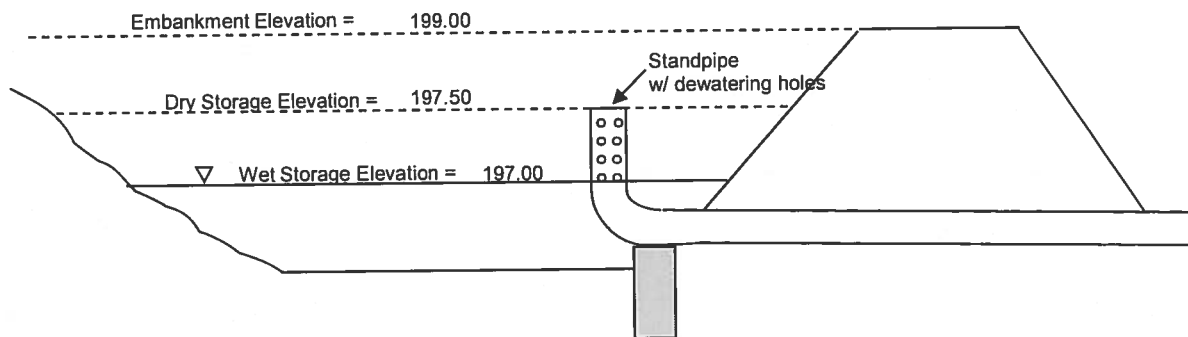
PROJECT: Acadia Plat 2 JOB NO. 1404.187 Page 1 of 2 Pages

SUBJECT: Sediment Basin #6 Calculations DATE: 02/10/16 COMP. BY: JJN OK'D BY: _____

Sediment Basin Design:

Design Considerations:

- * Required to provide a storage volume of 3600 cf of volume per acre
- * The standpipe is designed to release at the 2-year, 24-hour peak storm event
- * The dewatering orifice is designed for a 6-hour drawdown of the dry storage area
- * The emergency spillway should be designed to allow the 25-year peak storm event



1. Size the Standpipe required for the 2-year peak Storm (Principal Spillway Calculations)

Drainage Area = 9.00 Ac

$I_2 =$ 3.16 in/hr *Assume $T_c = 15$ min.

$C =$ 0.25 (Undeveloped Surface)

$Q_2 =$ 7.11 cfs

a. Compare the Weir & Orifice Equations to determine the size

Try a 12 inch riser

$h =$ Embankment Elevation - Dry Storage Elevation = 1.50 ft

Weir Equation

Orifice Equation

$$Q = 10.5 \times d \times h^{3/2}$$

$$Q = 0.6 \times A \times \sqrt{2gh}$$

$$Q =$$
 19.29 cfs

$$Q =$$
 4.63 cfs

The flowrate calculated was 7.11 cfs, therefore a 12 inch riser pipe is acceptable.



CIVIL DESIGN ADVANTAGE

3405 SE Crossroads Dr., SUITE G GRIMES, IA 50111

PROJECT: Acadia Plat 2 JOB NO. 1404.187 Page 2 of 2 PagesSUBJECT: Sediment Basin #6 Calculations DATE: 02/10/16 COMP. BY: JJN OK'D BY: _____**2. Sediment Basin Volume Calculation****Wet Storage Volume:**

Elevation	Area ft ²	Average Area, ft ²	Volume ft ³
194.75	0		0
195	97	49	12
196	5930	3014	3026
197	14250	10090	13116

Wet Storage Provided = 13,116 cf
 Top Wet Storage Elev = 197.00
 Dry Storage Provided = 8,907 cf
 Top Dry Storage Elev = 197.50
 Total Storage Provided = 22,023 cf
 Embankment Elevation = 199.00

Dry Storage Volume:

Elevation	Area ft ²	Average Area, ft ²	Volume ft ³
197	14250		
197.5	21378	17814	8907

3. Size Dewatering Orifice for a 6-hour Drawdown

a) Determine the flowrate of the Dry Volume

$$Q_d = \text{Dry Storage Volume} / 6\text{-hours}$$

$$Q_d = 0.41 \text{ cfs}$$

b) Determine the average head of the perforation area (h_a)

* Assume the perforations begin 3-inches below top of standpipe

$$h_a = (h_p - h_c) / 2 \quad h_p = \text{Dry Storage Elevation} - \text{Wet Storage Elevation} = 0.50 \text{ ft}$$

$$h_c = [(\text{Dry Storage Elevation} - 3") - \text{Wet Storage Elevation}] / 2 = 0.13 \text{ ft}$$

$$h_a = 0.19 \text{ ft}$$

c) Determine the total orifice area required

$$A = Q_d / [0.6 * (2gh_a)^{1/2}] = 0.20 \text{ sf}$$

d) Result

2 inch diameter holes result in requiring 10 perforations.

Therefore, provide 2 rows of 5-2" diameter holes.



CIVIL DESIGN ADVANTAGE

3405 SE Crossroads Dr., SUITE G GRIMES, IA 50111

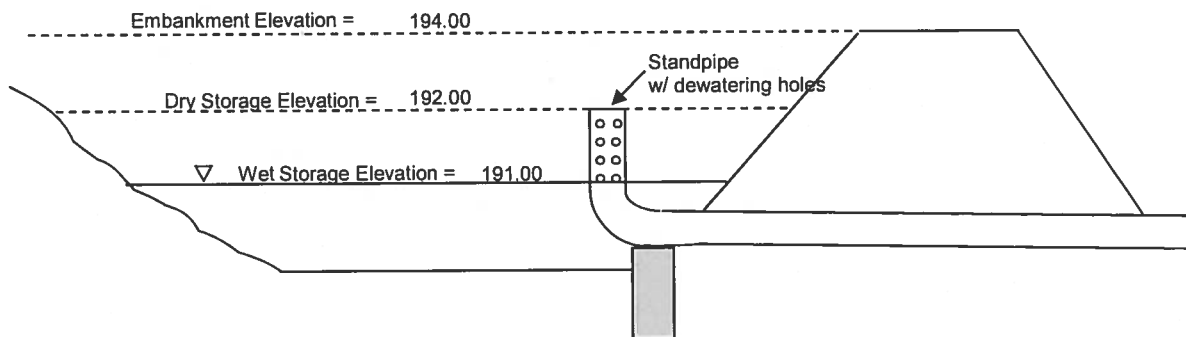
PROJECT: Acadia Plat 2 JOB NO. 1404.187 Page 1 of 2 Pages

SUBJECT: Sediment Basin #5B Calculations DATE: 02/10/16 COMP. BY: JJN OK'D BY: _____

Sediment Basin Design:

Design Considerations:

- * Required to provide a storage volume of 3600 cf of volume per acre
- * The standpipe is designed to release at the 2-year, 24-hour peak storm event
- * The dewatering orifice is designed for a 6-hour drawdown of the dry storage area
- * The emergency spillway should be designed to allow the 25-year peak storm event



1. Size the Standpipe required for the 2-year peak Storm (Principal Spillway Calculations)

Drainage Area = 4.89 Ac

$I_2 =$ 3.16 in/hr *Assume $T_c = 15$ min.

$C =$ 0.25 (Undeveloped Surface)

$Q_2 =$ 3.86 cfs

a. Compare the Weir & Orifice Equations to determine the size

Try a 12 inch riser

$h =$ Embankment Elevation - Dry Storage Elevation = 2.00 ft

Weir Equation

Orifice Equation

$$Q = 10.5 \times d \times h^{3/2}$$

$$Q = 0.6 \times A \times \sqrt{2gh}$$

$$Q =$$
 29.70 cfs

$$Q =$$
 5.35 cfs

The flowrate calculated was 3.86 cfs, therefore a 12 inch riser pipe is acceptable.



CIVIL DESIGN ADVANTAGE

3405 SE Crossroads Dr., SUITE G GRIMES, IA 50111

PROJECT: Acadia Plat 2 JOB NO. 1404.187 Page 2 of 2 PagesSUBJECT: Sediment Basin #5B Calculations DATE: 02/10/16 COMP. BY: JJN OK'D BY: _____**2. Sediment Basin Volume Calculation****Wet Storage Volume:**

Elevation	Area ft ²	Average Area, ft ²	Volume ft ³
189	0		0
190	2124	1062	1062
191	8602	5363	6425

Wet Storage Provided = 6,425 cf
 Top Wet Storage Elev = 191.00
 Dry Storage Provided = 12,218 cf
 Top Dry Storage Elev = 192.00
 Total Storage Provided = 18,643 cf
 Embankment Elevation = 194.00

Dry Storage Volume:

Elevation	Area ft ²	Average Area, ft ²	Volume ft ³
191	8602		
192	15833	12218	12218

3. Size Dewatering Orifice for a 6-hour Drawdown

a) Determine the flowrate of the Dry Volume

$$Q_d = \text{Dry Storage Volume} / 6\text{-hours}$$

$$Q_d = 0.57 \text{ cfs}$$

b) Determine the average head of the perforation area (h_a)

* Assume the perforations begin 3-inches below top of standpipe

$$h_a = (h_p - h_c) / 2 \quad h_p = \text{Dry Storage Elevation} - \text{Wet Storage Elevation} = 1.00 \text{ ft}$$

$$h_c = [(\text{Dry Storage Elevation} - 3") - \text{Wet Storage Elevation}] / 2 = 0.38 \text{ ft}$$

$$h_a = 0.31 \text{ ft}$$

c) Determine the total orifice area required

$$A = Q_d / [0.6 * (2gh_a)^{1/2}] = 0.21 \text{ sf}$$

d) Result

2 inch diameter holes result in requiring 10 perforations.

Therefore, provide 2 rows of 5-2" diameter holes.



CIVIL DESIGN ADVANTAGE

3405 SE Crossroads Dr., SUITE G GRIMES, IA 50111

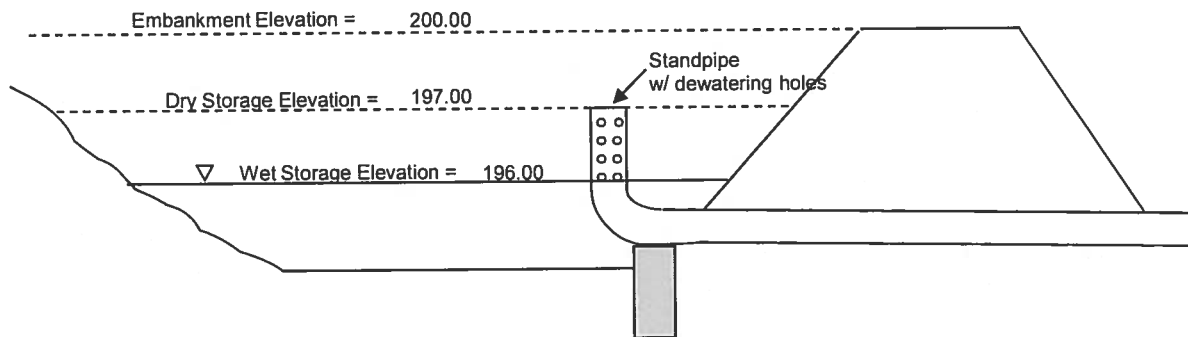
PROJECT: Acadia Plat 2 JOB NO. 1404.187 Page 1 of 2 Pages

SUBJECT: Sediment Basin #3B Calculations DATE: 02/10/16 COMP. BY: JJN OK'D BY: _____

Sediment Basin Design:

Design Considerations:

- * Required to provide a storage volume of 3600 cf of volume per acre
- * The standpipe is designed to release at the 2-year, 24-hour peak storm event
- * The dewatering orifice is designed for a 6-hour drawdown of the dry storage area
- * The emergency spillway should be designed to allow the 25-year peak storm event



1. Size the Standpipe required for the 2-year peak Storm (Principal Spillway Calculations)

Drainage Area = 24.4 Ac

$I_2 =$ 3.16 in/hr *Assume $T_c = 15$ min.

$C =$ 0.25 (Undeveloped Surface)

$Q_2 = 19.28$ cfs

a. Compare the Weir & Orifice Equations to determine the size

Try a 24 inch riser

$h =$ Embankment Elevation - Dry Storage Elevation = 3.00 ft

Weir Equation

Orifice Equation

$$Q = 10.5 \times d \times h^{3/2}$$

$$Q = 0.6 \times A \times \sqrt{2gh}$$

$$Q = 109.12 \text{ cfs}$$

$$Q = 26.20 \text{ cfs}$$

The flowrate calculated was 19.28 cfs, therefore a 24 inch riser pipe is acceptable.



CIVIL DESIGN ADVANTAGE

3405 SE Crossroads Dr., SUITE G GRIMES, IA 50111

PROJECT: Acadia Plat 2 JOB NO. 1404.187 Page 2 of 2 PagesSUBJECT: Sediment Basin #3B Calculations DATE: 02/10/16 COMP. BY: JJN OK'D BY: _____**2. Sediment Basin Volume Calculation****Wet Storage Volume:**

Elevation	Area ft ²	Average Area, ft ²	Volume ft ³
193.5	0		0
194	424	212	106
195	7269	3847	3953
196	18644	12957	16909

Wet Storage Provided = 16,909 cf
 Top Wet Storage Elev = 196.00
 Dry Storage Provided = 25,870 cf
 Top Dry Storage Elev = 197.00
 Total Storage Provided = 42,779 cf
 Embankment Elevation = 200.00

Dry Storage Volume:

Elevation	Area ft ²	Average Area, ft ²	Volume ft ³
196	18644		
197	33095	25870	25870

3. Size Dewatering Orifice for a 6-hour Drawdown

a) Determine the flowrate of the Dry Volume

$$Q_d = \text{Dry Storage Volume} / 6\text{-hours}$$

$$Q_d = 1.20 \text{ cfs}$$

b) Determine the average head of the perforation area (h_a)

* Assume the perforations begin 3-inches below top of standpipe

$$h_a = (h_p - h_c) / 2 \quad h_p = \text{Dry Storage Elevation} - \text{Wet Storage Elevation} = 1.00 \text{ ft}$$

$$h_c = [(\text{Dry Storage Elevation} - 3") - \text{Wet Storage Elevation}] / 2 = 0.38 \text{ ft}$$

$$h_a = 0.31 \text{ ft}$$

c) Determine the total orifice area required

$$A = Q_d / [0.6 * (2gh_a)^{1/2}] = 0.44 \text{ sf}$$

d) Result

2 inch diameter holes result in requiring 21 perforations.

Therefore, provide 3 rows of 7-2" diameter holes.



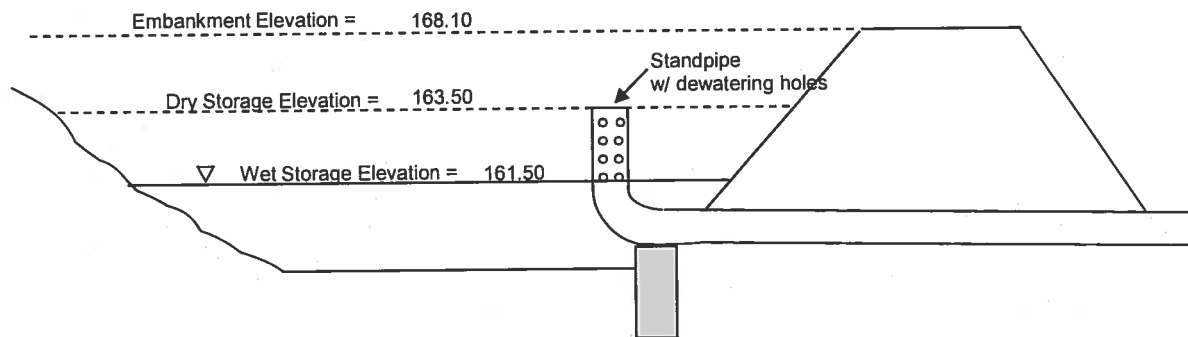
CIVIL DESIGN ADVANTAGE

3405 SE Crossroads Dr., SUITE G GRIMES, IA 50111

PROJECT: Acadia Plat 2 JOB NO. 1404.187 Page 1 of 2 PagesSUBJECT: Sediment Basin #3A Calculations DATE: 02/16/16 COMP. BY: JJN OK'D BY: _____**Sediment Basin Design:**

Design Considerations:

- * Required to provide a storage volume of 3600 cf of volume per acre
- * The standpipe is designed to release at the 2-year, 24-hour peak storm event
- * The dewatering orifice is designed for a 6-hour drawdown of the dry storage area
- * The emergency spillway should be designed to allow the 25-year peak storm event

**1. Size the Standpipe required for the 2-year peak Storm (Principal Spillway Calculations)**Drainage Area = 62.9 Ac $I_2 =$ 3.16 in/hr *Assume $T_c = 15$ min. $C =$ 0.25 (Undeveloped Surface) $Q_2 = 49.72$ cfs**a. Compare the Weir & Orifice Equations to determine the size**Try a 24 inch riser $h = \text{Embankment Elevation} - \text{Dry Storage Elevation} = 4.60$ ftWeir EquationOrifice Equation

$$Q = 10.5 \times d \times h^{3/2}$$

$$Q = 0.6 \times A \times \sqrt{2gh}$$

$$Q = 207.18 \text{ cfs}$$

$$Q = 32.44 \text{ cfs}$$

The flowrate calculated was 49.72 cfs, therefore a 24 inch riser pipe is acceptable.



CIVIL DESIGN ADVANTAGE

3405 SE Crossroads Dr., SUITE G GRIMES, IA 50111

PROJECT: Acadia Plat 2 JOB NO. 1404.187 Page 2 of 2 PagesSUBJECT: Sediment Basin #3A Calculations DATE: 02/16/16 COMP. BY: JJN OK'D BY: _____**2. Sediment Basin Volume Calculation****Wet Storage Volume:**

Elevation	Area ft ²	Average Area, ft ²	Volume ft ³
159	0		0
160	2779	1390	1390
161	13892	8336	9725
161.5	19759	16826	18138

Wet Storage Provided = 18,138 cf
 Top Wet Storage Elev = 161.50
 Dry Storage Provided = 51,112 cf
 Top Dry Storage Elev = 163.50
 Total Storage Provided = 69,250 cf
 Embankment Elevation = 168.10

Dry Storage Volume:

Elevation	Area ft ²	Average Area, ft ²	Volume ft ³
161.5	19759		
162	25626	22693	11346
163.5	27395	26511	51112

3. Size Dewatering Orifice for a 6-hour Drawdown

a) Determine the flowrate of the Dry Volume

$$Q_d = \text{Dry Storage Volume} / 6\text{-hours}$$

$$Q_d = 2.37 \text{ cfs}$$

b) Determine the average head of the perforation area (h_a)

* Assume the perforations begin 3-inches below top of standpipe

$$h_a = (h_p - h_c) / 2 \quad h_p = \text{Dry Storage Elevation} - \text{Wet Storage Elevation} = 2.00 \text{ ft}$$

$$h_c = [(\text{Dry Storage Elevation} - 3") - \text{Wet Storage Elevation}] / 2 = 0.88 \text{ ft}$$

$$h_a = 0.56 \text{ ft}$$

c) Determine the total orifice area required

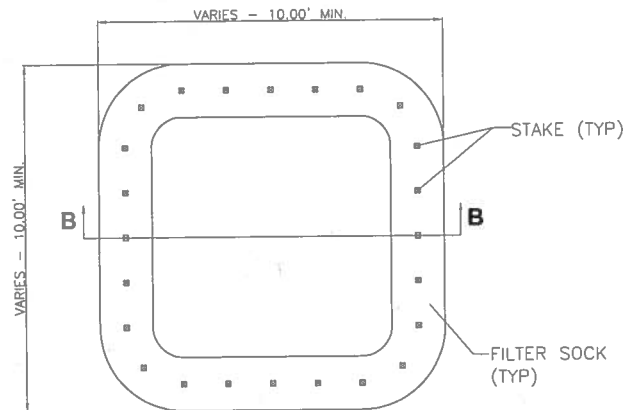
$$A = Q_d / [0.6 * (2gh_a)^{1/2}] = 0.66 \text{ sf}$$

d) Result

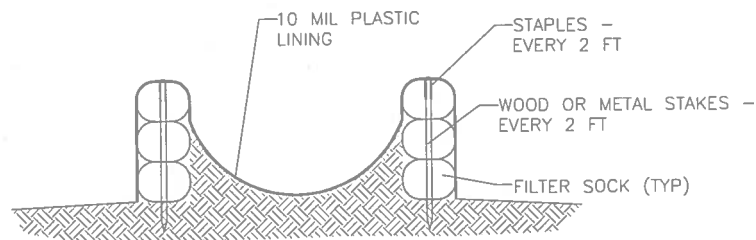
2 inch diameter holes result in requiring 31 perforations.

Therefore, provide 4 rows of 5-2.5" diameter holes.

CONCRETE WASHOUT DETAIL



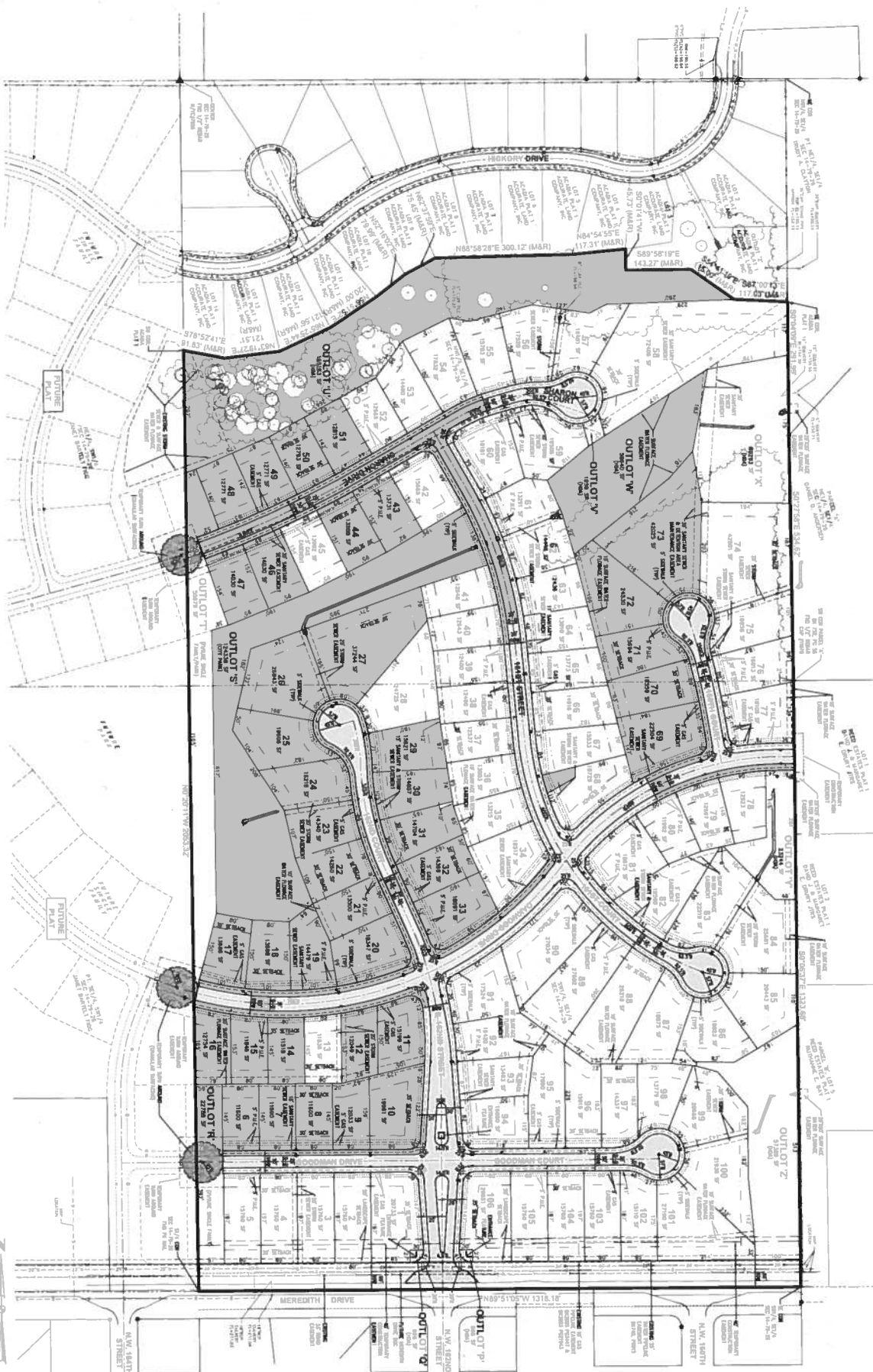
PLAN-TEMPORARY CONCRETE WASHOUT ABOVE GRADE- N.T.S.



SECTION B-B N.T.S.

NOTES:

1. ACTUAL LAYOUT AND LOCATION TO BE DETERMINED IN FIELD BY THE CONTRACTOR.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 75% FULL.



ACADIA PHASE 2
 PRELIMINARY PLAT (DIMENSION PLAN)



URBANDALE, IOWA

3405 S.E. CROSSROADS DRIVE, SUITE G
 GRIMES, IOWA 50111
 PHONE: (515) 369-4400 FAX: (515) 369-4410

ENGINEER: RDR

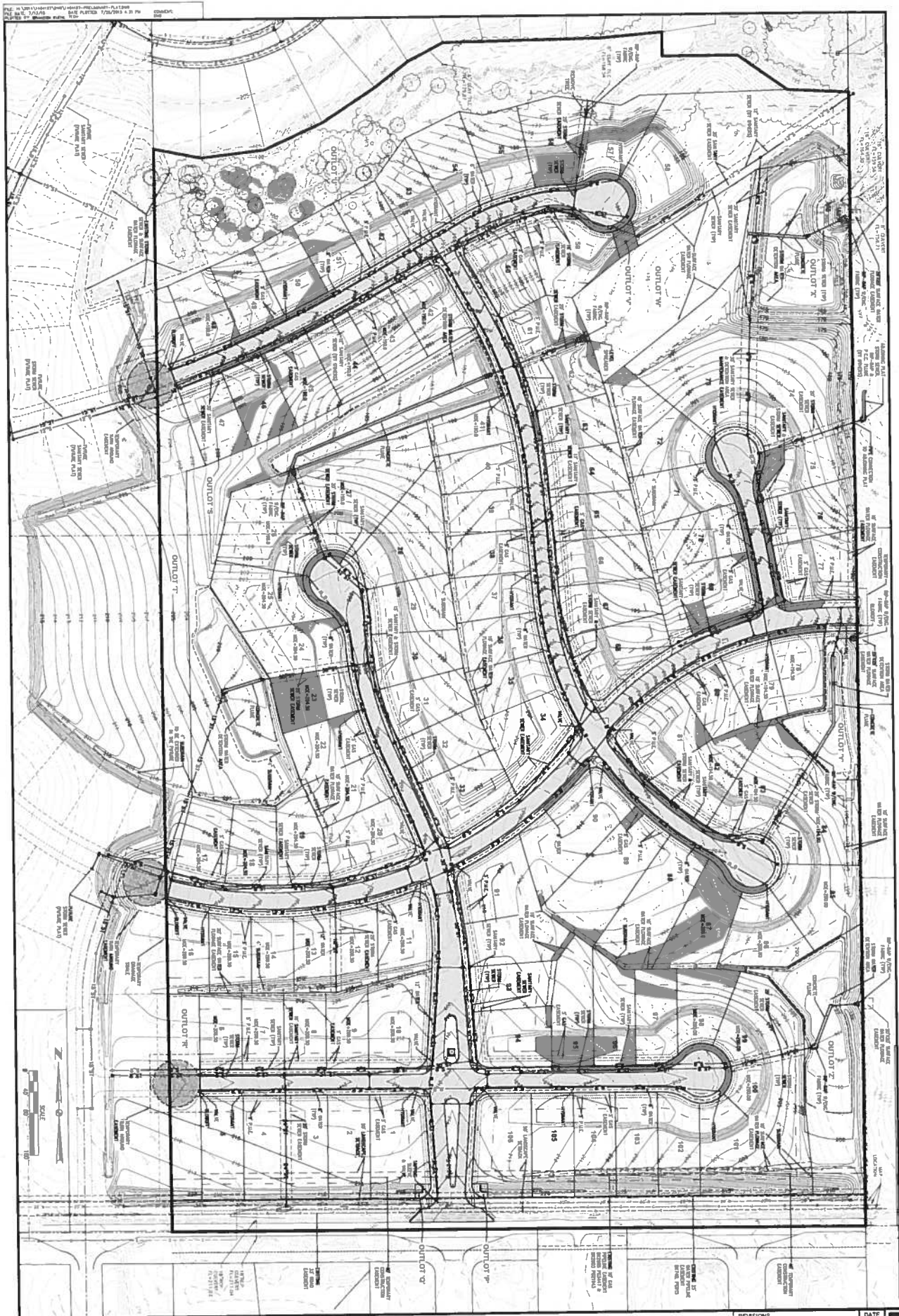
TECH: LMK

REVISIONS

NO.	DESCRIPTION	DATE
1	SECOND SUBMITTAL	05/05/15
2	FIRST SUBMITTAL	12/29/14

DATE

05/05/15
12/29/14



3
3
1404.187

ACADIA PHASE 2 **PRELIMINARY PLAT (GRADING / UTILITY PLAN)**

URBANDALE, IOWA



CIVIL DESIGN ADVANTAGE

3405 S.E. CROSSROADS DRIVE, SUITE G
 GRIMES, IOWA 50111
 PHONE: (515) 369-4400 FAX: (515) 369-4410

ENGINEER: RDR

TECH: LMK

REVISIONS

NO.	DATE	DESCRIPTION
1	06/05/13	SECOND SUBMITTAL
2	12/26/14	FIRST SUBMITTAL

DATE

06/05/13
12/26/14

INSPECTOR QUALIFICATIONS

Inspection Personnel

The contractor or owner must have “qualified” personnel inspect all of the disturbed areas on the site. Personnel selected to conduct inspections should be knowledgeable in the principles and practices of erosion and sediment controls, possess the technical skills to assess conditions at the construction site that could impact storm water quality, and assess the effectiveness of any sediment and erosion control measures selected.

An inspection report should be completed after each inspection and should be signed and certified by the inspector.

Inspection Schedule and Procedures

1. All control measures will be inspected at least once every seven (7) calendar days.
2. All measures will be maintained in good working order. If a repair is necessary, it will be initiated within 24 hours of the report and completed within 7 days of the event.
3. A maintenance inspection report will be made after each inspection and recorded in the project SWPPP. The report will be signed by the inspector performing the inspection.
4. The inspector will then distribute copies of the inspection report to the owner, general contractor and erosion control contractor. Corrective actions will need to be initiated within 24 hours of receiving the report.
5. The contractor/owner will be responsible for maintaining records for 3 years from the date the site is finally stabilized.

SWPPP Inspectors			
Inspector Name	Certifications	Dates of Training	Hours of Training

STORMWATER POLLUTION PREVENTION TRAINING LOG

Project Name: Acadia Plat 2

Project Location: Northwest of the intersection of Meredith Drive and 160th Street in Urbandale, IA

Date: _____

Instructor's Name: _____

Instructor's Title: _____

Course Location: _____

Course Length: _____

Stormwater Training Topic:

- | | |
|---|--|
| <input type="checkbox"/> Erosion Control BMP's | <input type="checkbox"/> Emergency Procedures |
| <input type="checkbox"/> Sediment Control BMP's | <input type="checkbox"/> Good Housekeeping BMP's |
| <input type="checkbox"/> Non-Stormwater BMP's | <input type="checkbox"/> Inspection Procedures |

Attendee Roster

No.	Name of Attendee	Company
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

Corrective Action Log

Project Name: Acadia Plat 2 – Urbandale, IA

SWPPP Contact: Kevin Johnson – Accurate Land CO, LLC

[illegible]

Stormwater Construction Site Inspection Report

General Information			
Project Name	Acadia Plat 2		
NPDES Authorization Number	23817-23576	Location	NW of the intersection of Meredith Drive and 160th Street Urbandale, IA
Date of Inspection		Start/End Time	
Inspector's Name(s)			
Inspector's Title(s)			
Inspector's Contact Information			
Inspector's Qualifications			
Describe present phase of construction			
Weather Information			
Has there been a storm event since the last inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No			
If yes, provide:			
Storm Start Date & Time:	Storm Duration (hrs):	Approximate Amount of Precipitation (in):	
Weather at time of this inspection?			
<input type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Sleet <input type="checkbox"/> Fog <input type="checkbox"/> Snowing <input type="checkbox"/> High Winds <input type="checkbox"/> Other: Temperature:			
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No			
If yes, describe:			
Are there any discharges at the time of inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No			
If yes, describe:			

Site-specific BMPs

- Number the structural and non-structural BMP's identified on the erosion and sediment control plan and list them below. The location should be described and the information filled out properly in each column.
- If BMP's need to be repaired, corrective actions need to be noted in the Corrective Action Log in Section 5 of the SWPPP

	BMP	Location	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
6			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

	BMP	Location	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
7			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
8			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
9			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
11			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Overall Site Issues

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	Are discharge points and receiving waters free of any sediment deposits?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
6	Is the construction exit preventing sediment from being tracked into the street?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
7	Is trash/litter from work areas collected and placed in covered dumpsters or other acceptable trash receptacles?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
8	Are the concrete washout facilities available, clearly marked, and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12	Are the portable restroom facilities securely fastened to the ground and areas are free from any spills or leaks?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
13	Any seed, mulch or other stabilizing measures need to be repaired or reapplied?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Non-Compliance

Describe any incidents of non-compliance not described above:

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: _____

Signature: _____ Date: _____

Grading and Stabilization Activities Log

Project Name: Acadia Plat 2 – Urbandale, IA

SWPPP Contact: Kevin Johnson – Accurate Land CO, LLC

[illegible]

U.S. Fish & Wildlife Service

Endangered Species

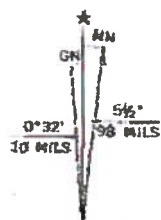
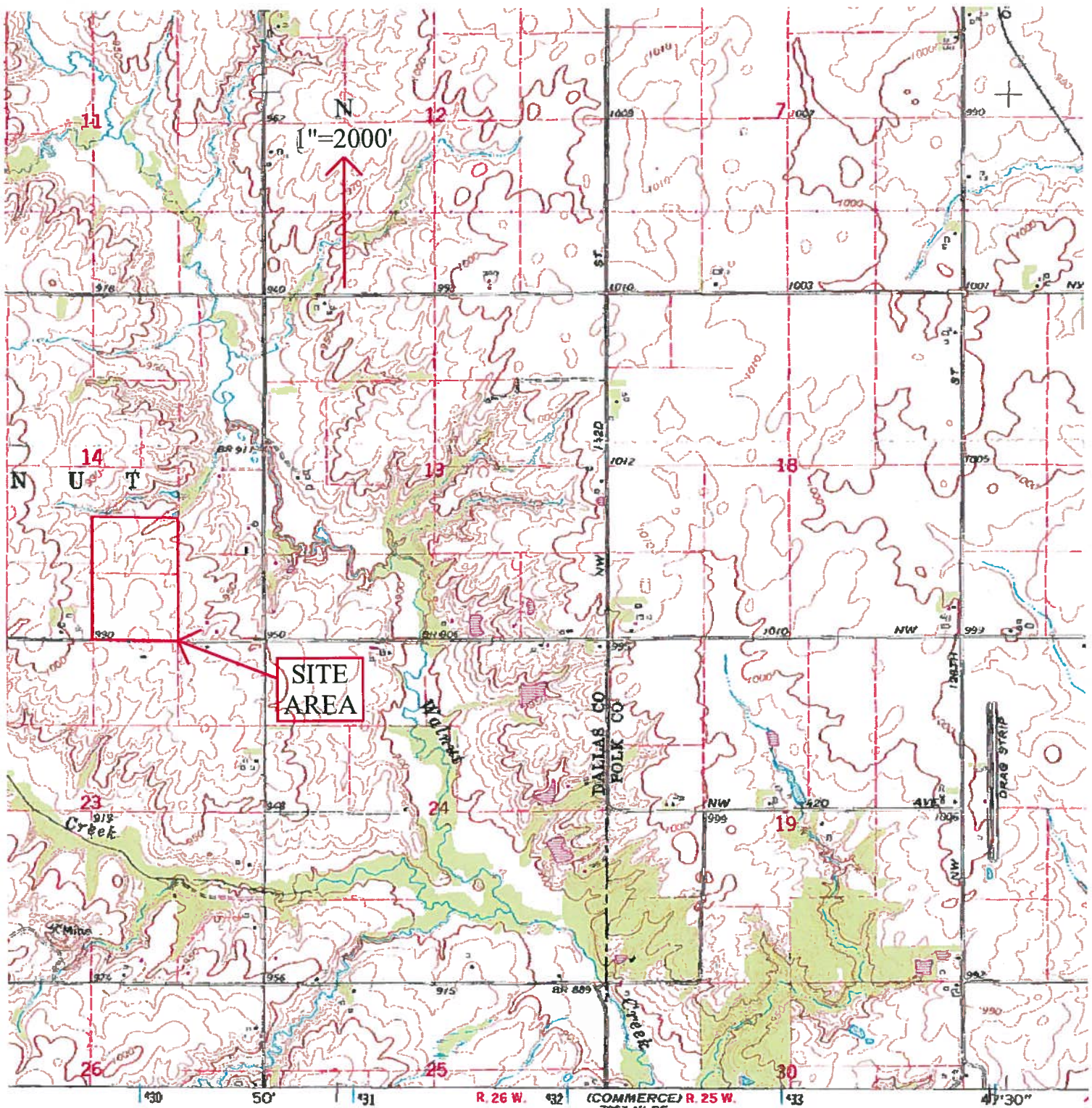
County: Dallas, Iowa

The following is a report containing Species that are known to or are believed to occur in Dallas County, Iowa.

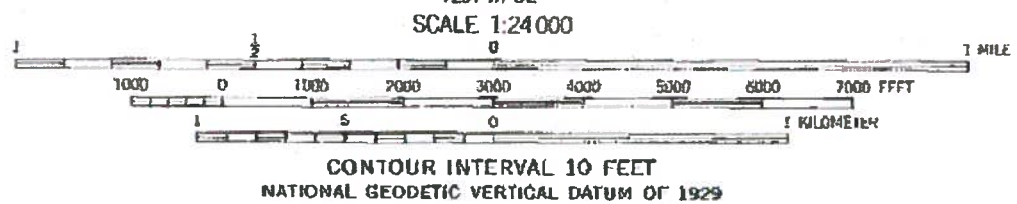
<u>Group</u>	<u>Name</u>	<u>Population</u>	<u>Status</u>	<u>Lead Office</u>	<u>Recovery Plan Name</u>	<u>Recovery Plan Stage</u>
Fishes	Topeka Shiner (Notropis topeka (=tristis))	Entire	Endangered	Kansas Ecological Services Field Office		
Flowering Plants	Prairie bush-clover (Lespedeza leptostachya)		Threatened	Twin Cities Ecological Services Field Office	Prairie Bush-clover	Final
Flowering Plants	Western prairie fringed Orchid (Platanthera praeclara)		Threatened	Twin Cities Ecological Services Field Office	Western Prairie Fringed Orchid	Final
Mammals	Northern Long-Eared Bat (Myotis septentrionalis)		Proposed Endangered	Green Bay Ecological Services Field Office		

Website Source: http://ecos.fws.gov/tess_public/

Date Downloaded: May 12, 2014

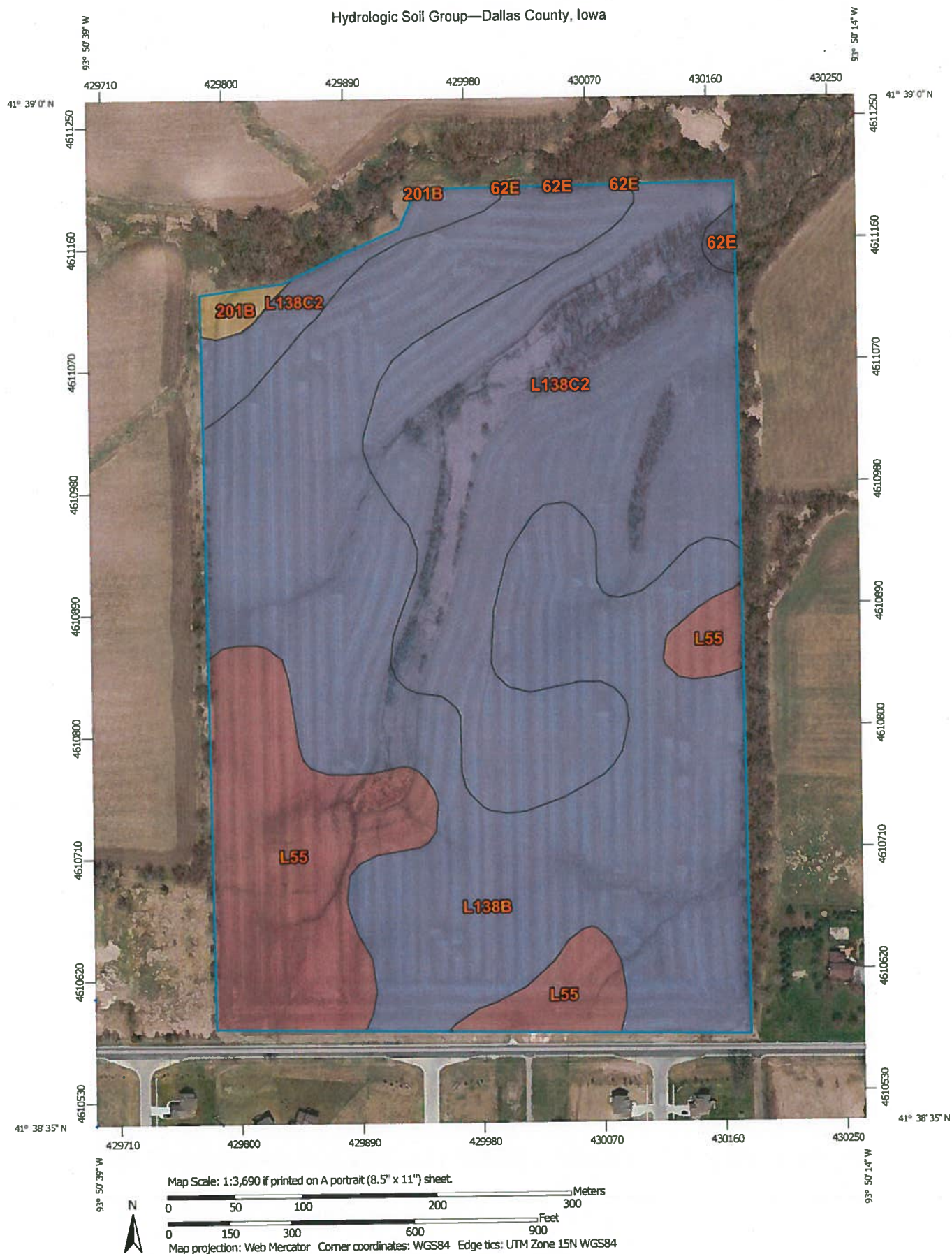


UTM GRID AND 1976 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND BY THE IOWA GEOLOGICAL SURVEY, IOWA CITY, IOWA 52240
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Hydrologic Soil Group—Dallas County, Iowa



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

2/16/2015
Page 1 of 4




MAP LEGEND

Area of Interest (AOI)









 Area of Interest (AOI)

Soils

Soil Rating Polygons





 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points






 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dallas County, Iowa
 Survey Area Data: Version 20, Sep 9, 2014

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 11, 2011—May 18, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Dallas County, Iowa (IA049)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
62E	Storden loam, 14 to 18 percent slopes	B	0.2	0.4%
201B	Coland-Terril complex, 2 to 5 percent slopes	C/D	0.4	0.7%
L55	Nicollet loam, 1 to 3 percent slopes	B/D	9.5	16.0%
L138B	Clarion loam, Bemis moraine, 2 to 6 percent slopes	B	29.3	49.3%
L138C2	Clarion loam, Bemis moraine, 6 to 10 percent slopes, moderately eroded	B	19.9	33.6%
Totals for Area of Interest			59.4	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher



http://iaspub.epa.gov/tmdl_waters10/attains_watershed.control?p_huc=07100006&p_cycle=&p_report_type=T
Last updated on Wednesday, June 26, 2013

Watershed Assessment, Tracking & Environmental Results

You are here: [EPA Home](#) » [Water](#) » [WATERS](#) » [Water Quality Assessment and TMDL Information](#) » Watershed Quality Assessment Report

[Return to home page](#)

On This Page

- [Listed Waters Summary](#)
- [Causes of Impairment](#)
- [Cumulative TMDLs by Pollutant](#)

[Iowa State Report](#)

For More Information:

[Download Excel compatible information](#)

[Download GIS Information](#) (Internet Explorer only)

[Water Quality Data Available for this Watershed](#)

Iowa, North Raccoon Watershed



Click on the watershed for an interactive map

Search for a waterbody within North Raccoon

Enter Waterbody Name:

Features

- About This Database (Integrated Report)
- Assessing Water Quality (Questions and Answers)
- Integrated Reporting Guidance
- Previous National Water Quality Reports
- EnviroMapper for Water
- AskWATERS
- EPA WATERS Homepage
- Exchange Network
- Assessment Database
- Statewide Statistical Surveys
- How's My Waterway Local Search tool
- Pollution Categories Summary Document

Listed Waters for Reporting Year 2010 Iowa, North Raccoon Watershed

[Description of this table](#)

NOTE: Click on the underlined "Waterbody Name" to view a Waterbody report.

<u>Waterbody Name</u>	<u>Waterbody ID</u>	<u>Location</u>	<u>Waterbody Type</u>	<u>Size</u>	<u>Units</u>	<u>State TMDL Development Status</u>
Black Hawk Lake	IA 04-RAC-00475-L_0	Sac County S35t87nr36w At Lake View.	Freshwater Lake	925	acres	
Des Moines River	IA 04-UDM-0040_2	From The West Line Of S15 T88n R28w (Webster Co.) To The Dam Of The Ft. Dodge Impoundment.	River	10.2	miles	
Des Moines River	IA 04-UDM-0060_0	From Upper End Of The Ft. Dodge Impoundment (Webster Co.) To The Confluence With The East Fork Des Moines R. In S19 T91n R28w Humboldt Co.	River	13	miles	
Elk Run	IA 04-RAC-0127_0	Mouth-> Dd-72/81 S5t85nr34w Carroll Co	River	7.1	miles	
Marrowbone Creek	IA 04-RAC-0123_0	Mouth To Trib S17t85nr33w Carroll Co.	River	.957	miles	
North Raccoon River	IA 04-RAC-0050_2	From County Road M54 (S24t88n R36w Sac Co.) To Confluence With Drainage Ditch 101 In S36 T91n R36w Buena Vista Co.	River	25.55	miles	
Pickerel Lake	IA 04-RAC-01690-L_0	Buena Vista County S1t93nr35w 4 Mi Ne Of Marathon.	Wetlands, Freshwater	35	acres	
Poor Farm Creek	IA 04-RAC-01695_0	Mouth (T91n R36w Sec 15 Buena Vista Co.) To Headwaters In S34 T91n R37w Buena Vista Co.	River	10.222	miles	
South Twin Lake	IA 04-RAC-01395-L_0	Calhoun County S1t88nr33w 3 Mi N Of Rockwell City.	Wetlands, Freshwater	600	acres	
Storm Lake				3147	acres	

IA 04-RAC-
00530-L 0Buena Vista County S14t90nr37w At
Storm Lake.Freshwater
Lake**Causes of Impairment for Reporting Year 2010****Iowa, North Raccoon**[Description of this table](#)

Cause of Impairment	Number of Causes Reported
Escherichia Coli (E. Coli)	4
Algal Growth/Chlorophyll A	3
Secchi Disk Transparency	3
Cause Unknown - Biological Integrity	2
Fish Kill(s)	2
Dissolved Oxygen	1

Cumulative TMDLs by Pollutant**Iowa, North Raccoon Watershed**

This chart includes TMDLs since October 1, 1995.

[Description of this table](#)

NOTE: Click on the underlined "Number of TMDLs Completed" value to see a listing of those approved TMDLs for the pollutant.		
Pollutant	<u>Number of TMDLs Completed</u>	Number of Causes of Impairment Addressed
Escherichia Coli (E. Coli)	<u>5</u>	9
Turbidity	<u>4</u>	4
Excess Algal Growth	<u>3</u>	3
Clarity	<u>2</u>	2
Nitrate	<u>2</u>	2
Phosphorus, Total	<u>2</u>	2
Total Suspended Solids (TSS)	<u>2</u>	2

Total: 20 TMDLs; 0 Causes of Impairment

Search TMDL Documents[Full Text Search of TMDL Documents](#)



IOWA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL SERVICES DIVISION
FIELD SERVICES & COMPLIANCE BUREAU
EMERGENCY RESPONSE UNIT

Iowa Administrative Code Chapter 131 Notification of Hazardous Conditions

24 hour number for release reporting
515/281-8694

Summary of Key Points and Definitions

Definitions

"Hazardous Condition" means any situation involving the actual, imminent or probable spillage, leakage, or release of a hazardous substance onto the land, into a water of the state or into the atmosphere which, because of quantity, strength and toxicity of the hazardous substance, its mobility in the environment and its persistence, creates an immediate or potential danger to the public health or safety or to the environment.

"Hazardous Substance" means any substance or mixture of substance that presents a danger to the public health or safety and includes, but is not limited to, a substance that is toxic, corrosive, or flammable, or that is an irritant or that, in confinement, generates pressure through decomposition, heat, or other means. The following are examples of substances which, in sufficient quantity, may be hazardous: acids; alkalis; explosives; fertilizers; heavy metals such as chromium, arsenic, mercury, lead, and cadmium; industrial chemicals; paint thinners; paints; pesticides; petroleum products; poisons; radioactive materials; sludges; and organic solvents. "Hazardous substances" may include any hazardous waste identified or listed by the administrator of the United States Environmental Protection Agency under the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976, or any toxic pollutant listed under Section 307 of the federal Water Pollution Control Act as amended to January 1, 1977, or any hazardous substance designated under Section 311 of the federal Water Pollution Control Act as amended to January 1, 1977, or any hazardous material designated by the secretary of transportation under the Hazardous Materials Transportation Act (49 CFR 172.101)

Key Points

Who is Required to Report Hazardous Conditions. Any person manufacturing, storing, handling, transporting, or disposing of a hazardous substance shall notify the department at (515) 281-8694 and the local police department or the office of the sheriff of the affected county of the occurrence of a hazardous condition as soon as possible but not later than six hours after the onset of the hazardous condition or the discovery of the hazardous condition. A sheriff or police chief who has been notified of a hazardous condition shall immediately notify the department. Reports made pursuant to this rule shall be confirmed in writing as provided in 131.2(2).

Reporting Subsequent Findings. All subsequent finding and laboratory results should be reported and submitted in writing to the department as soon as they become available.

Reminder ~ VERBAL REPORTS ARE REQUIRED WITHIN 6 HOURS OF
INCIDENCE OCCURRENCE OR DISCOVERY.



IOWA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL SERVICES DIVISION
FIELD SERVICES & COMPLIANCE BUREAU
EMERGENCY RESPONSE UNIT

Guidelines for Reporting Hazardous Conditions Verbal Reporting

24 hour number for release reporting
515/281-8694

Report the Condition if:

- ☐ The hazardous substance has the potential to leave the property by run-off, sewers, tile lines, culverts, drains, utility lines, or some other conduit, or,
- ☐ The hazardous substance has the potential to reach a water of the state – either surface water or groundwater or,
- ☐ The hazardous substance can be detected in the air at the boundaries of the facility property by the senses (sight and smell) or by monitoring equipment or,
- ☐ There is a potential threat to the public health and safety or,
- ☐ Local officials (Fire department, law enforcement, Hazmat, public health, and emergency management) respond to the incident or,
- ☐ The release exceeds a Federal Reportable Quantity (RQ).

~ If in Doubt, Report It ~

**IDNR REQUIRES VERBAL REPORTS WITHIN 6 HOURS OF
INCIDENCE OCCURRENCE OR DISCOVERY**

- It is recommended that all spills be cleaned up although a particular spill may not be reportable. A series of small spills over time can result in one big cleanup.
- Department rules stress the immediate or potential danger that a spill may cause.
- A written report of the Hazardous Condition is required within 30 days of the verbal notification.

*In general, Iowa reporting requirements are more stringent than
Federal reporting requirements. However, the **time limit**
for reporting at the Federal level is more immediate.*



IOWA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL SERVICES DIVISION
FIELD SERVICES & COMPLIANCE BUREAU
EMERGENCY RESPONSE UNIT

Guidelines for Reporting Hazardous Conditions

Written Report Requirements

24 hour number for release reporting
515/281-8694

The Iowa Department of Natural Resources
Requires a written report of any Hazardous Condition.
(VERBAL REPORT REQUIRED WITHIN 6 HOURS)

Written Report. The written report of such a hazardous condition shall be submitted to the department within 30 days and contain the following information:

- a. The exact location of the hazardous condition.
- b. The time and date of onset or discovery of the hazardous condition.
- c. The name of the material, the manufacturer's name, and the volume of each material involved in the hazardous condition in addition to contaminants within the material if they by themselves could cause a hazardous condition.
- d. The medium (land, water, or air) in which the hazardous condition occurred or exists.
- e. The name, address, and telephone number of the party responsible for the hazardous condition.
- f. The time and date of the verbal report to the department of the hazardous condition.
- g. The weather conditions at the time of the hazardous condition onset or discovery.
- h. The name, mailing address, and telephone number of the person reporting the hazardous condition.
- i. The name and telephone of the person closest to the scene of the hazardous condition who can be contacted for further information and action.
- j. Any other information, such as the circumstances leading to the hazardous condition, visible effects, and containment measures taken that may assist in the proper evaluation by the department.

The written report should include the IDNR Spill Number (assigned at the time of the verbal report) and be addressed to the duty officer responding to the spill. Reports can be sent via mail, fax, or electronic mail to the addresses listed below.

Mail	Fax	E-Mail
IDNR Emergency Response Unit 502 E. 9 TH Street Des Moines, IA 50319-0034	515-281-7229	This form can be e-mailed to: Emergency_Response@dnr.iowa.gov



Written Report for Hazardous Conditions

The Iowa Department of Natural Resources
Requires a written report of any Hazardous Condition.

(VERBAL REPORT REQUIRED WITHIN 6 HOURS)

Written Report. The written report of a hazardous condition shall be submitted to the department within 30 days and contain the following information (Please complete as much as possible):

DNR Spill Number for hazardous condition:	
--	--

Location of hazardous condition:

Physical Address		city	
Legal Address	Lat/Long or Twn/Rng	zip	
Other description			

Time and Date of onset or discovery of hazardous condition:

Time ☐ AM ☐ PM Date _____

Time and Date of verbal report to the department of the hazardous condition:

Time ☐ AM ☐ PM Date _____

The Hazardous Condition:

Name of material/substance(s)	Manufacturer	Volume

If more space is needed add additional pages. Attach a Material Safety Data Sheet (MSDS) if possible.

The medium in which the hazardous condition occurred/existed (Check all that apply):

☐ Ground Water ☐ Surface Water ☐ Land ☐ Air

Weather Conditions during the time of the hazardous condition onset or discovery:

Temperature	Wind Direction	Wind Speed	Humidity	Precipitation

Contact Information:

	Name	Company	Mailing Address	Telephone
Person Reporting (if known)				
Party Responsible				
Site Contact				

Cause of the Incident: Write a narrative of the events leading to the incident

Initial Actions Taken: Write a narrative of the initial actions and instructions taken or required.

Written reports should include the DNR spill number and be addressed to the duty officer responding to the spill. Reports can be sent via mail, fax, or electronic mail.

Mail

Fax

Email

IDNR Emergency Response
7900 Hickman Rd Ste 200
Windsor Heights, IA 50324-4432

515/281-7229

Emergency_Response@dnr.iowa.gov

Thank You

Emergency Response Contractors

www.iowadnr.com/spills/

The Iowa Department of Natural Resources does not register, certify or endorse contractors. Responsible parties are not required to hire contractors on this list. The Iowa DNR reserves the right to make the final determination as to whether a contractor will be listed based on our knowledge of their work practices. This list is provided as a courtesy to responsible parties to help expedite spill responses and cleanups. These contractors have indicated that they are in compliance with OSHA regulations for emergency response personnel (OSHA 1910.120).

It is essential that contractors communicate directly with the Iowa DNR once they have been hired by a responsible party. This will ensure that the contractor is aware of the onsite conditions, brings the proper equipment to the spill site, and understands the Department's expectations for cleanup and coordinates with other state and local officials. We also advise responsible parties to determine if the contractor hired is actually performing the on-site work or is subcontracting the work to another contractor.

Whenever possible, we recommend that companies pre-plan for emergencies and contact potential contractors before an incident occurs. Keep in mind that a contractor may not always be available to respond to an incident due to previous commitments. Iowa is a predominantly rural state and it may take several or more hours for a contractor to respond to a site.

NOTES:

- **Public hazardous materials teams respond only at the request of local officials, do not contract with private companies and do not respond outside of their regional contracts. Not all counties in Iowa have a contract with a public hazardous materials team.**
- **The Iowa DNR does not have a hazardous materials team and will not hire a contractor for you.**
- **Unless noted, the contractors listed do not provide services for nuclear/radiation incidents, biohazards, explosives or weapons of mass destruction.**

Any company determined to have misrepresented its qualifications, on-site authority, response levels or expertise will be removed from this list for a minimum of 3 years.

Emergency Response Contractors	Company Location, Service Area, Response Level, Limitations
<p>Assured Decontamination Services, LLC. 2643 Beaver Ave. Des Moines, Iowa 50310</p> <p>800-924-6384 www.deconservices.com</p>	<p>This company is based in Minneapolis with a satellite office in Des Moines.</p> <p>This company responds statewide</p> <p>Response Level: B</p> <p>This company deals with Meth lab cleanup and petroleum spill cleanups.</p>
<p>Acterra 220 35th Street Marion, Iowa 52302</p> <p>800-289-7371 319-377-0075 (fax) sales@acterragroup.com www.acterra.com</p>	<p>This company has offices in northeastern and central Iowa (Cedar Rapids & Des Moines). Also has office in Kieler, WI</p> <p>The company responds statewide</p> <p>Response Level: D</p> <p>The company does petroleum spills.</p>
<p>Bay West 5 Empire Drive Saint Paul, Minnesota 55103</p> <p>800-279-0456 651-291-0099(fax) www.baywest.com danh@baywest.com</p>	<p>This company is located in central Minnesota (Twin Cities).</p> <p>The company responds in Iowa statewide.</p> <p>Response Level: A</p> <p>The company does not handle pressurized gases.</p>
<p>Bio Tec Emergency Services 24139 Greenway Rd. Unit A Forest Lake, MN 55025 1-888-246-9111 web site: www.usacsc.com email: info@usacsc.com</p>	<p>This company is located in</p> <p>The company responds in Iowa statewide.</p> <p>Response Level: C</p> <p>Clandestine (Meth) Lab Remediation and Analytical Testing, Mold, Fire and Water Restoration, Homicide, Suicide and Accidental Death Clean-Ups</p>
<p>Bodine Services of Peoria 4203 Constitution Road Bartonville, IL 61607</p> <p>309-633-9999 309-633-9914 (fax) akinkelaar@bodineservices.com</p>	<p>This company is located in Illinois.</p> <p>The company responds to the eastern half of Iowa.</p> <p>Response Level: A</p> <p>The company does not handle biohazards, radiation, pressurized gases, explosives or weapons of mass destruction.</p>
<p>Enviromark 7301 Vine Street Court Davenport, Iowa 52806</p> <p>563-388-9100 563-388-1515 (Fax) www.enviromark.com</p>	<p>This company has offices in Davenport and Des Moines. The Davenport office is the main office.</p> <p>The company responds statewide.</p> <p>Response Level: B</p> <p>The company does not handle pressurized gases, stinger operations or off-load certain products.</p>
<p>Environmental Management Services, Inc. 1030 S. Rolff St. Davenport, IA 52802 563-322-9000 563-322-4363 (fax) www.ems-inc.biz</p>	<p>This company is located Davenport.</p> <p>The company responds statewide</p> <p>Response Level: B</p> <p>The company does not handle biohazards, radiation, pressurized gases, stinger operations, explosives or WMD.</p>

<p>Environmental Solutions 9144 S. 147th St. Omaha, Nebraska 68138</p> <p>402-896-3600 402-894-2444 (fax)</p> <p>www.esilink.com johnsemp@esilink.com</p>	<p>This company is located in eastern Nebraska, western Iowa (Omaha/Council Bluffs).</p> <p>The company responds in western Iowa.</p> <p>Response Level: A</p> <p>The company does not handle pressurized gases. The company does handle clandestine labs and biohazards.</p>
<p>Evans Environmental 13055 Locust St. Glenwood, Iowa 51534</p> <p>712-527-1440 712-527-1442 (fax) www.evansenv.com michelle@evansenv.com</p>	<p>This company is located in western Iowa (Council Bluffs/Omaha).</p> <p>The company responds statewide.</p> <p>Response Level: B</p> <p>The company handles pressurized gases on a case by case basis. Also have can trucks available.</p>
<p>Five Seasons Auto Rebuilders 5913 16th Ave. SW Cedar Rapids, IA 52404</p> <p>319-396-8683 319-396-4152 (fax)</p> <p>Fiveseasonsauto@dybb.com</p>	<p>This company is located in Eastern Iowa.</p> <p>The company responds statewide.</p> <p>Response Level: C</p> <p>The company handles petroleum based and vehicular fluid spills in eastern Iowa up to 500 gallons, specializes in accident cleanup. Also paint and paint related products, can be contracted to transport already contained hazmat products.</p>
<p>GeoTek Engineering 909 East 50th Street North Sioux Falls, South Dakota 57104</p> <p>800-354-5512 605-335-0773 (fax) www.geotek@eng.com</p>	<p>This company is located in southeastern South Dakota, northwestern Iowa (Sioux City/Rapid City).</p> <p>The company responds statewide.</p> <p>Response Level: C</p> <p>The company handles petroleum and some other spills. The company does not handle pressurized gases, stinger operations, or off-load tankers.</p>
<p>GM Enterprises, LLC. Environmental Services 2019 170th St. Mt. Pleasant, Iowa 52641 1-319-931-0508 1-319-931-5725 GMEnterprises@live.com</p>	<p>GM Enterprises, LLC. Formerly SEMO Environmental Services of Iowa is location is in Mount Pleasant, Southeast IA.</p> <p>The company responds statewide.</p> <p>Response Level: C</p> <p>The company handles petroleum spills and some other spills within the limits of Level C protection. Also has an extensive fleet of heavy equipment and trucks.</p>
<p>HazMat Response, Inc. 1203C South Parker Olathe, Kansas 66061</p> <p>21942 Platteview Rd. Gretna, NE 68028</p> <p>800-229-5252 402-332-2032 (Omaha) 913-782-6206 (fax) www.haz-matresponse.com hazmat@haz-matresponse.com</p>	<p>The company is located in the Kansas City, Missouri area. Also have offices in Omaha and N. Platte, NE.</p> <p>The company responds statewide.</p> <p>Response Level: A</p> <p>Limited Radiation and Biohazards</p>
<p>Heritage 15330 Canal Bank Rd. Lemonte, IL 60439</p> <p>630-487-7455 (office) 630-739-1151 (fax) www.heritage-enviro.com</p>	<p>This company is located in Illinois (Chicago).</p> <p>The company responds statewide.</p> <p>Response Level: A</p> <p>The company handles pressurized gases on a case by case basis.</p>

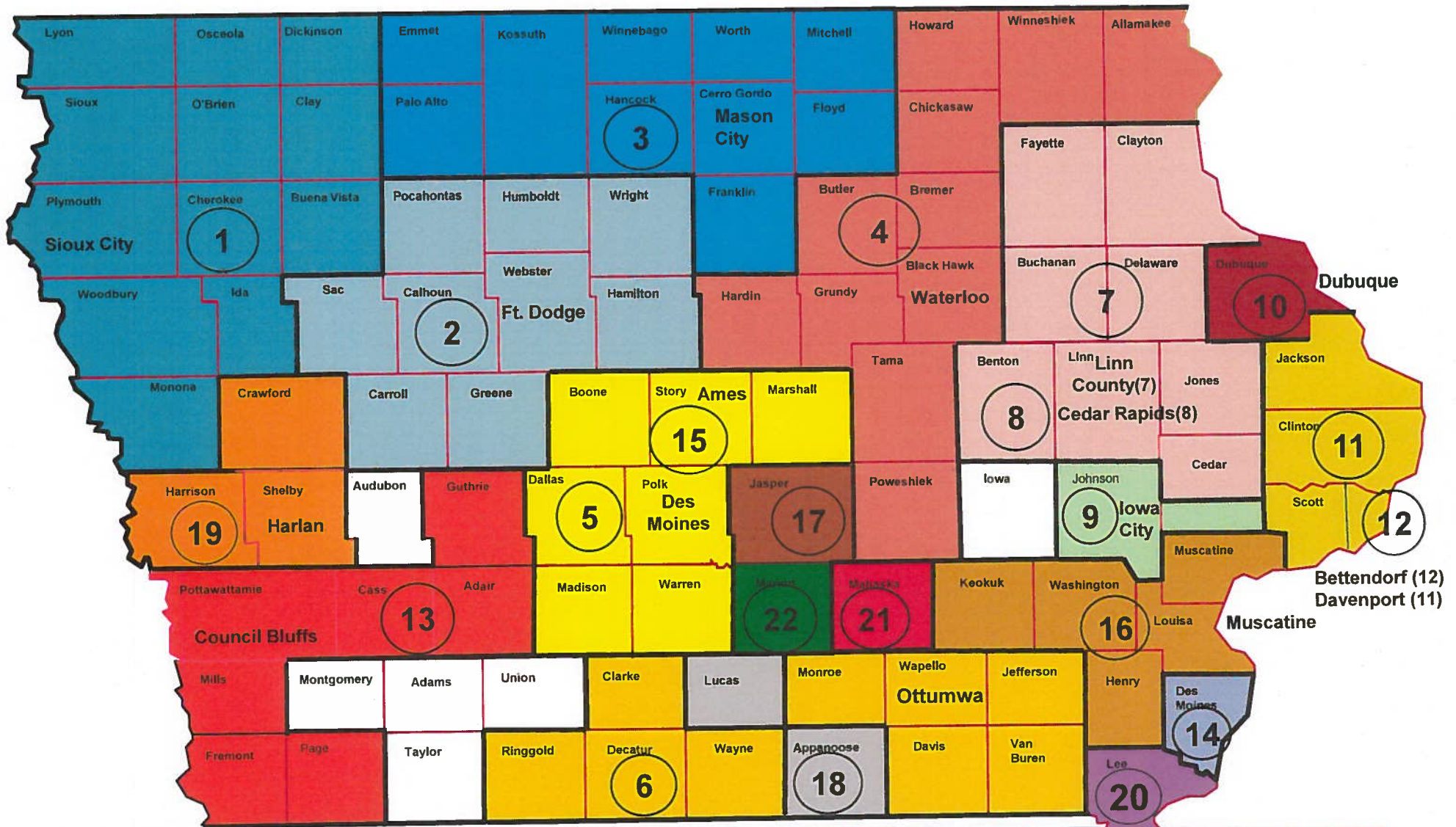
<p>Hulcher Services Inc. 3825 N. Skiles Ave. Kansas City, MO 64161</p> <p>800-637-5471 (24 hr) 816-454-0303 (office) www.hulcher.com rwaln@hulcher.com</p>	<p>The company is located in the Kansas City, Missouri area.</p> <p>The company responds statewide.</p> <p>Response Level: A</p> <p>No limitations.</p>
<p>Hydro-Klean 333 NW 49th Place Des Moines, Iowa 50313</p> <p>515-283-0500 515-283-0505 (fax) www.hydro-klean.com mdeutsch@hydro-klean.com</p>	<p>This company is located in central Iowa (Des Moines).</p> <p>This company responds statewide.</p> <p>Response Level: A</p> <p>The company does not handle pressurized gases.</p>
<p>Iowa CTS Cleaners 4300 SE Capitol Cir Suite C Grimes, IA 50111 (515) 554-3834 (24 hour line)</p> <p>www.iowactscleaners.com Johnk@iowactscleaners.com</p>	<p>Located in central Iowa (Des Moines)</p> <p>The company responds statewide</p> <p>Response level C</p> <p>The company handles biohazard remediation to include suicide, homicide, accidental and unattended death cleanup and restoration. Company also handles clandestine drug lab/ site (meth lab and or user site) assessment, testing, and decontamination.</p>
<p>J. Pettiecord, Inc. 5043 NE 22nd Street Des Moines, Iowa 50313</p> <p>515-263-8900 515-265-7750 (fax) nick@jpettiecord.com</p>	<p>The company is located in central Iowa (Des Moines).</p> <p>The company responds statewide.</p> <p>Response Level: C</p> <p>The company handles petroleum spills and some other spills within the limits of Level C protection. Also has an extensive fleet of heavy equipment and trucks</p>
<p>Lindecker Environmental Solutions 7161 Mitchell Mill Rd LaMotte, IA 52054</p> <p>(563)580-5960 (563)599-6511</p> <p>Dlindecker1@aol.com</p>	<p>The company is located in northeast Iowa (Dubuque).</p> <p>The company responds northeast and central Iowa.</p> <p>Response level: C.</p> <p>The company handles petroleum based and vehicular fluid spills and other spills within the level C protection.</p>
<p>Meth Lab Cleanup LLC 604 Locust Street Ste 222 Des Moines, IA 50309 515-657-6386 800-959-METH (6384)</p> <p>http://www.methlabcleanup.com info@methlabcleanup.com</p>	<p>The company is located in central Iowa (Des Moines).</p> <p>The company responds statewide.</p> <p>Response Level: C</p> <p>The company handles clandestine drug lab (meth lab) assessment, testing, and decontamination.</p>

<p>Seneca Waste Solutions 4140 NE 14th Street Des Moines, Iowa 50313</p> <p>7241 Gaines Street Court Davenport, Iowa 52806</p> <p>4444 S. York Street Sioux City, Iowa 51106</p> <p>800-369-5500 Des Moines/Sioux City 800-728-6900 Bettendorf 515-262-2469 (fax) www.senecacompanies.com cbiellier@senecaco.com</p>	<p>Company has response centers located in western, central and eastern Iowa (Sioux City, Des Moines & Quad Cities along the Mississippi River)</p> <p>Company responds statewide</p> <p>Response Level: A & B</p> <p>Company does not handle radiation, biohazards, explosives, WMD or Compressed gases. The Company handles most other chemical spills, corrosives and petroleum products. Stinger operations performed on case by case basis</p>
<p>Shaw Environmental Infrastructure 42 North Central Drive O'Fallon, Missouri 63306</p> <p>800-537-9540 404-668-5511 http://www.shawgrp.com/</p>	<p>This company is located in east central Missouri (St. Louis).</p> <p>This company responds statewide.</p> <p>Response Level: A</p> <p>The company does handle radiation, biohazards, explosives and weapons of mass destruction.</p>
<p>Stantec Consulting Svc Inc. 3349 Southgate Ct SW Suite102 Cedar Rapids, Iowa 52404 319-365-0466 319-365-0464 (fax) 319-330-0465 (cell) 24 Hour Emergency Hotline 1-800-854-0606 www.northernenvironmental.com Contact: James Goodrich</p>	<p>Northern Environmental is located in eastern Iowa (Cedar Rapids).</p> <p>The company responds statewide</p> <p>Response Level: C</p> <p>The company responds to petroleum products and agricultural chemical releases. Hazardous materials are responded to within the limits of Level C protection on a case by case basis. The company does not handle pressurized gases.</p>
<p>SWS Environmental Services 600 Grand Panama Blvd, Suite 200 Panama City, FL 32407</p> <p>800-336-0909</p> <p>www.swsenvironmental.com todd.johnson@swsenvironmental.com</p>	<p>The company is based in Florida with regional offices in Texas, Louisiana, Tennessee, Ohio and with a Response Network of Contractors Nationwide and Canada.</p> <p>SWS responds statewide and nationwide.</p> <p>Response Level: A</p> <p>No Limitations to Spill Response; also Remediation, Nuclear, Training, Technical and Natural Disaster qualified. OSRO and GSA certified.</p>
<p>Unified Contracting Services, Inc. 2425 NE 46th Ave. Des Moines, IA 50317</p> <p>(888) 788-8860 (515) 266-5720 (fax) www.petroleumcontractor.com unifiedsvcs@aol.com</p>	<p>The company is located in Des Moines, Iowa.</p> <p>The company responds statewide.</p> <p>Response Level: C</p> <p>The company responds to petroleum products and agricultural chemical releases. Hazardous materials are responded to within the limits of Level C protection on a case by case basis.</p>
<p>West Central Env. Consulting 14 Green River Road PO Box 594 Morris, Minnesota 56267 320-589-2843 320-589-2814 (fax) www.wcec.com cteфф@wcec.com</p>	<p>This company is located in west central and central Minnesota. (Morris & the Twin Cities).</p> <p>The company responds statewide.</p> <p>Response Level: A</p> <p>The company handles pressurized gases on a case by case basis. The company handles biohazards on a case by case basis.</p>

IOWA HAZARDOUS MATERIALS TEAMS

Hazardous Materials Teams cover 99.5 % of the Population in 93 Counties in Iowa

Revised: 11/08/2013



- | | | | |
|----------------------------------|---|--|--|
| 1. Sioux City Fire Department | 7. Linn County Hazmat Team | 14. Burlington Fire Department | 19. Tri-County Special Operations |
| 2. Region V Hazmat Team | 8. Cedar Rapids Hazmat Team serves the City of Cedar Rapids | 15. Ames and backup for Des Moines Hazmat Team | 20. Lee County Hazmat |
| 3. Mason City Fire Department | 9. Johnson County Hazmat Team | 16. Muscatine | 21. Mahaska County Hazmat Response Group |
| 4. Northeast Iowa Response Group | 10. Dubuque Fire Department | 17. Newton Fire Dept. | 22. Marion County Hazardous Materials Team |
| 5. Des Moines Fire Department | 11. Davenport Fire Department | 18. Hydro-Klean | |
| 6. Southeast Iowa Response Group | 12. Bettendorf Fire and Rescue (east half of Scott County) | | |
| | 13. Council Bluffs Fire Dept | | |

Transferred Property Log

Project Name: Acadia Plat 2 – Urbandale, IA

SWPPP Contact: Kevin Johnson – Accurate Land CO, LLC

[illegible]

[illegible]

SWPPP Amendment Log

Project Name: Acadia Plat 2 – Urbandale, IA

SWPPP Contact: Kevin Johnson – Accurate Land CO, LLC

The Storm Water Pollution Prevention Plan (SWPPP) should be revised and updated whenever there is a change in site conditions, government regulations, design, construction, operation or maintenance which has a significant effect on the potential for the discharge of pollutants to the Waters of the State and which has not otherwise been addressed in the plan. All revisions to the SWPPP must be documented on the SWPPP Amendment Log, which should include the information shown below. A copy of the outdated information should be kept in Section 8 of the SWPPP.

[illegible]

ATTACHMENT 4



Stormwater Construction Site Inspection Report

General Information				
Project Name	Acadia Plat 2			
NPDES Tracking No.	23817-23576	Location	Urbandale, Iowa	
Date of Inspection	10/06/16	Start Time	11:15 AM	
Inspector's Name(s)	Mike Kosloske			
Present phase of construction	Black dirt respread / Paving / Stabilization			
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Post-storm event Approximate Amount of Precipitation (in):				
Weather at time of this inspection? <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snowing Temperature: 64 Degrees				
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed
1	Are all disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topsoil respreads has started
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	More placements / repairs to be done when as areas dry up.
3	Are controls and sediment barriers adequately installed and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	More placements / repairs to be done when as areas dry up.
4	Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	More placements / repairs to be done when as areas dry up.
5	Are storm drain inlets properly protected?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Covered with steel plates. Some in process of being poured.
6	Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(All three entrances remain in working order)
7	Is trash/litter from work areas collected and placed in a dumpsters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills or leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

NOTES:

Ground conditions were somewhat dry during today's inspection. The site was active with multiple Alliance crews paving sections of the streets and storm intakes throughout the site. McAninch crews were on site starting on the curb backfilling and topsoil respreads on the project. Some of the basin areas have been started to get mucked out as well. I spoke to the McAninch foreman on site and he asked that we hold off on any control placements until after next week as they will be pulling a number of the existing fences for the topsoil respreads to take place. We will review the site and their progress after next weeks inspection. The swale that was graded onto the neighboring property at the SE basin outlet has been seeded and matted. It is starting to get a good stand of grass. There is some standing water on the far east section on the matting. Some of the sediment log controls have been dislodged from the heavy water flow. New controls have been placed on the site around the central undisturbed drainage area and upslope from the neighboring Bent Tree Development. Some of the placed F.E.S. structures have had rip rap placed around them. Rock should be placed at the outlets of the remaining F.E.S. structures. All of the construction entrances were free of track out at the time of inspection. Multiple roll off concrete washout areas have been placed throughout the site for the paving activities. The south east berm area along Meredith has been seeded and hydro mulched along with the small section of Outlot X where trees have been planted. A section of the West side of the southern berm has been tore up as the grading was not correct and needed to be re graded. This area will need to be seeded again. There was track out visible onto Meredith due to the heavy concrete truck traffic into the site that should be cleaned up.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: _____ Mike Kosloske, SWPPP Inspector, ICCSPPI _____

Signature: _____ On File _____





















Stormwater Construction Site Inspection Report

General Information			
Project Name	Acadia Plat 2		
NPDES Tracking No.	23817-23576	Location	Urbandale, Iowa
Date of Inspection	09/08/16	Start Time	11:15 AM
Inspector's Name(s)	Mike Kosloske		
Present phase of construction	Road subgrade prep		
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Post-storm event Approximate Amount of Precipitation (in):			
Weather at time of this inspection? <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snowing Temperature: 80 Degrees			
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	BMP/activity	Implemented?	Corrective Action Needed
1	Are all disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Stabilize inactive areas of the site.
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Multiple control failures from yesterday's rain. Work order in place to repair when things dry up.
3	Are controls and sediment barriers adequately installed and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Multiple control failures from yesterday's rain. Work order in place to repair when things dry up.
4	Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Multiple control failures from yesterday's rain. Work order in place to repair when things dry up.
5	Are storm drain inlets properly protected?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Covered with steel plates. Some need adjustment.
6	Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(All three entrances remain in working order)
7	Is trash/litter from work areas collected and placed in a dumpsters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills or leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

NOTES:

Ground conditions were very wet and muddy from yesterday's rain the basin areas remain nearly full with standing water. The site was inactive due to the conditions. Nearly all of the future street areas have had grade stakes set for sub grade for paving. A good portion of the newly placed and repaired controls are damaged or full again from yesterday's heavy rain. A work order will be put in place to make the needed repairs as soon as it dries up a bit. All of the storm structures remain covered with plates or wood, some of these need to be readjusted over the intakes. The swale that was graded onto the neighboring property at the SE basin outlet has been seeded and matted. It is starting to get a good stand of grass. There is a small part of the matting that was driven over by what looks to be the home owner from mowing. Some of the sediment log controls have been dislodged from the heavy water flow. New controls have been placed on the site around the central undisturbed drainage area and upslope from the neighboring Bent Tree Development. Additional controls will be needed due to the heavy rain yesterday. Some of the placed F.E.S. structures have had rip rap placed around them. Rock should be placed at the outlets of the remaining F.E.S. structures. The inactive areas of the site should be temp stabilized as soon as conditions allow to help slow down the sediment moving across the bare site. The porta potty and fuel cell remain leak free. All of the construction entrances were free of track out at the time of inspection.

CERTIFICATION STATEMENT

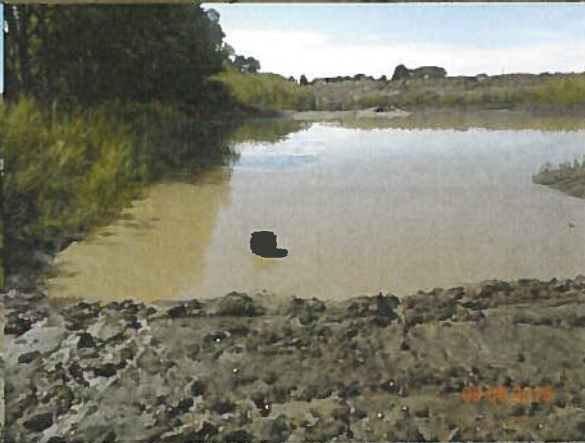
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: _____ Mike Kosloske, SWPPP Inspector, ICCSPPI _____

Signature: _____ On File _____





















Stormwater Construction Site Inspection Report

General Information			
Project Name	Acadia Plat 2		
NPDES Tracking No.	23817-23576	Location	Urbandale, Iowa
Date of Inspection	08/25/16	Start Time	11:15 AM
Inspector's Name(s)	Mike Kosloske		
Present phase of construction	Sanitary & Storm placement		
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Post-storm event Approximate Amount of Precipitation (in):			
Weather at time of this inspection? <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snowing Temperature: 70 Degrees			
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	BMP/activity	Implemented?	Maintenance Required?
1	Are all disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Are controls and sediment barriers adequately installed and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
6	Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Is trash/litter from work areas collected and placed in a dumpsters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills or leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

NOTES:

Ground conditions were still a little wet and tacky in areas. The site was active with a small McAninch crew working on road grade prep in a few areas that were dry. A Pezzetti silt fence crew was also on site making repairs and additional control placements. More of the storm structures have been poured up to grade. All of the structures that are at grade remain covered with plates or wood. The swale that was graded onto the neighboring property at the SE basin outlet has been seeded and matted since last week. New controls have been placed on the site around the central undisturbed drainage area and upslope from the neighboring Bent Tree Development. Some of the placed F.E.S. structures have had rip rap placed around them. The inactive areas of the site should be temp stabilized as soon as conditions allow. The porta potty and fuel cell remain leak free, however there are a number of empty grease tubes throughout the staging area that should be cleaned up as to not contaminate the ground. All of the construction entrances were free of track out at the time of inspection.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: Mike Kosloske, SWPPP Inspector, ICCSPPI

Signature: On File















Stormwater Construction Site Inspection Report

General Information				
Project Name	Acadia Plat 2			
NPDES Tracking No.	23817-23576	Location	Urbandale, Iowa	
Date of Inspection	08/11/16	Start Time	11:45 AM	
Inspector's Name(s)	Mike Kosloske			
Present phase of construction	Sanitary & Storm placement			
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Post-storm event Approximate Amount of Precipitation (in):				
Weather at time of this inspection? <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snowing Temperature: 78 Degrees				
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed
1	Are all disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stabilize inactive areas of the site.
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Number of controls will need repair after the morning rain.
3	Are controls and sediment barriers adequately installed and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Number of controls will need repair after the morning rain.
4	Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Number of controls will need repair after the morning rain.
5	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(All three entrances remain in working order)
7	Is trash/litter from work areas collected and placed in a dumpsters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills or leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Clean up the random empty grease tubes around staging area.
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

NOTES:

Ground conditions were very wet and muddy. Water remains in the basins. The site was inactive given the ground conditions. A few more of the storm structures have been poured up to grade. All of the structures that are at grade remain covered with plates or wood. Multiple silt fence controls that were repaired last week are full again and need to be repaired / replaced. 2 small rip rap checks have been installed in the NW swale. Some of the silt fence controls leading to the Bent Tree Development on the east perimeter have been removed to place a sanitary structure and storm sewer line. These controls will need to be replaced as soon as this work is completed. Repairs to the damaged controls and additional controls will be placed as soon as areas are dry enough to access. Some of the placed F.E.S. structures have had rip rap placed around them. The storm outlet and standpipe have been placed in the basin at the east end of future Darkwood Drive. They are now using this basin as an outlet to drain the basin to the south. The inactive areas of the site should be temp stabilized as soon as conditions allow. The porta potty and fuel cell remain leak free, however there are a number of empty grease tubes throughout the staging area that should be cleaned up as to not contaminate the ground. All of the construction entrances were free of track out at the time of inspection.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: _____ Mike Kosloske, SWPPP Inspector, ICCSPPI _____

Signature: _____ On File _____













ATTACHMENT 5



Acadia Plat 2 10/14/2016

Erin,

I just wanted to give you a quick follow up on the progress of Acadia Plat 2 since the inspection we performed out there yesterday. Our crew arrived late yesterday after we had finished up with the inspection and got started with the repairs and placements. McAninch also had their full grading crew out there since the site was finally dry enough and were working on a majority of the final grading and top soil re spread. Our crew followed behind them placing new controls throughout the site. There are still a few areas that remain wet but these should be worked tomorrow or early next week. The pictures below were taken pretty much on the same route we walked yesterday so you should be able to decipher the areas easier. Also you can see that the 3 standpipes that were not in place while we were on site yesterday are now back in place as the apron footings were completed. We have also placed the below grade baskets in all of the street storm intakes that have been completed thus far.

Please let me know if you have any questions on any of the pictures or if you would like me to get any additional pictures on any specific areas.

Thanks,

Mike Kosloske













ATTACHMENT 6

**Notice of Potential
National Pollutant Discharge Elimination System (NPDES)
PERMIT VIOLATIONS**

Permittee (facility) Name and Address: Acadia Subdivision Plat 2, northwest of the intersection of Meredith Drive and 160th Street, Urbandale, Iowa, 50322

NPDES Permit Number: 23817-23576

During the Clean Water Act §308 compliance inspection conducted on October 13, 2016, the potential NPDES permit violations noted below were found. Additional violations may be brought to your attention following a complete review of the inspection report and other available information.

POTENTIAL NPDES PERMIT VIOLATIONS

Per part IV.D.2.D.3. facilities must maintain good and effective operating conditions vegetation, erosion and sediment control measures and other protective measures identified in site plan. Per Part IV of the Iowa Department of Natural Resources, NPDES General Permit No.2, facilities must implement the provisions of the required stormwater pollution prevention plan (SWPPP) as a condition of the permit. SWPPP implementation deficiencies include:

- Accumulated sediment from silt fence was not removed, and sections of silt fence that have been breached or undermined were not replaced.
- Filter socks were not installed at locations shown on the erosion and sediment control plan.
- Storm sewer inlet protection were not installed.
- Rock outlet protection were not installed at all outlets.
- Accumulated sediments from sediment basins numbers 3A were not removed.
- Stand up pipes in three basins were removed from basins at the time of the inspection.

Additional deficiencies include:

- Inspection reports were not provided for inspections once every seven calendar days as required by Part IV D.D.4. Reports for 10/6/16, 9/8/16, 8/25/16, 8/11/16 were provided.
- Building material wastes (Bore-Gel®) was not being disposed of properly as required by Part IV.D.2.C.
- The SWPPP was not signed as required by Part VI.G.
- Contractors and/or subcontractors working on the site were not identified in and did not sign the SWPPP as required by Part IV D.D.7.

REQUESTED ACTION: Within ten (10) days, please describe in writing any actions taken, or planned, to correct the potential violations identified above. Your response will be considered in the determination of the need for further administrative or legal action. Mail your description of corrective actions to your inspector at: U.S. Environmental Protection Agency, ENST/EFCB, 300 Minnesota Ave., Kansas City, KS, 66101

Inspector's printed Name: Erin F. Trainor

Signature: 

Date: 10/19/2016

Received By: Kerry Johnson

Signature: 

Date: 10-19-2016

ATTACHMENT 7



October 26, 2016

Pezzetti Erosion Control, Inc.
5700 University Ave, Ste 220
West Des Moines, IA 50266

Re: Acadia Subdivision Plat 2, Urbandale, Iowa

Dear Ms. Travis,

As you will remember, you conducted an inspection of the above-identified site in Urbandale, Iowa on October 13, 2016. At that time, you provided Accurate Development, the owner of the property, with a Notice of Potential NPDES Permit Violation (see Attachment 1). On behalf of Accurate Development, I have previously provided you with some information. After further investigation, I am also forwarding you some additional information for your consideration (Attachment 2).

Please feel free to call if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "JP Pezzetti", with a long, sweeping underline.

Jeffrey P. Pezzetti
President

**Notice of Potential
National Pollutant Discharge Elimination System (NPDES)
PERMIT VIOLATIONS**

Permittee (facility) Name and Address: Acadia Subdivision Plat 2, northwest of the intersection of Meredith Drive and 160th Street, Urbandale, Iowa, 50322

NPDES Permit Number: 23817-23576

During the Clean Water Act §308 compliance inspection conducted on October 13, 2016, the potential NPDES permit violations noted below were found. Additional violations may be brought to your attention following a complete review of the inspection report and other available information.

POTENTIAL NPDES PERMIT VIOLATIONS

Per part IV.D.2.D.3. facilities must maintain good and effective operating conditions vegetation, erosion and sediment control measures and other protective measures identified in site plan. Per Part IV of the Iowa Department of Natural Resources, NPDES General Permit No.2, facilities must implement the provisions of the required stormwater pollution prevention plan (SWPPP) as a condition of the permit. SWPPP implementation deficiencies include:

- Accumulated sediment from silt fence was not removed, and sections of silt fence that have been breached or undermined were not replaced.
- Filter socks were not installed at locations shown on the erosion and sediment control plan.
- Storm sewer inlet protection were not installed.
- Rock outlet protection were not installed at all outlets.
- Accumulated sediments from sediment basins numbers 3A were not removed.
- Stand up pipes in three basins were removed from basins at the time of the inspection.

Additional deficiencies include:

- Inspection reports were not provided for inspections once every seven calendar days as required by Part IV D.D.4. Reports for 10/6/16, 9/8/16, 8/25/16, 8/11/16 were provided.
- Building material wastes (Bore-Gel®) was not being disposed of properly as required by Part IV.D.2.C.
- The SWPPP was not signed as required by Part VI.G.
- Contractors and/or subcontractors working on the site were not identified in and did not sign the SWPPP as required by Part IV D.D.7.

REQUESTED ACTION: Within ten (10) days, please describe in writing any actions taken, or planned, to correct the potential violations identified above. Your response will be considered in the determination of the need for further administrative or legal action. Mail your description of corrective actions to your inspector at: U.S. Environmental Protection Agency, ENST/EFCB, 300 Minnesota Ave., Kansas City, KS, 66101

Inspector's printed Name: Erin F. Trainor

Signature:

Erin F. Trainor

Date: 10/19/2016

Received By: Kerry Johnson

Signature:

Kerry Johnson

Date: 10-19-2016



INFORMATION REGARDING ACADIA SUBDIVISION PLAT 2

The following information follows the format set out in the Notice of Potential NPDES Permit Violations as set out in Attachment 1.

- **“Inspection reports were not provided for inspections once every seven calendar days as required by part IV D.D.4. Reports for 10/6/16, 9/8/16, 8/25/16, 8/11/16 were provided.”**

Response:

- Prior to meeting Erin Trainor for the 10-13-16 inspection, 2 full months of inspection reports were printed out. These reports were given to Erin at the time of inspection and should have included inspections from 8/4/16, 8/11/16, 8/18/16, 8/25/16, 9/1/16, 9/8/16, 9/15/16, 9/22/16, 9/29/16 and 10/6/16. At the time it was stated that those inspections would be sufficient and if more were needed she would let us know. We are unsure as to what happened to the missing reports but we are resending all of them with this letter. The fact that these inspections were completed can be verified with the City of Urbandale’s Stormwater coordinator if needed, as they are e-mailed weekly to them as a requirement of their MS4 permit process.

- **“Accumulated sediment from silt fence was not removed, and sections of silt fence that have been breached or undermined were not replaced.”**

Response:

- Pezzetti Erosion Control (“PEC”) crews were out on the site after the 9-29-16 inspection cleaning out sediment, repairing damaged silt fences and placing additional silt fences in multiple areas of the site. Crews were out again on the site after the 10-6-16 inspection making additional repairs and placements.
- During our 10-6-16 inspection, the site grader, McAninch, Inc., was in the process of final grading and re spreading the topsoil on the site. At that time it had been determined to hold off on additional repairs and placements until the following week’s scheduled PEC 7-day inspection (to be conducted on 10-13-16) because McAninch would need to remove a majority of the controls for their work to take place. PEC would then follow in behind them and place the new controls. However, on the morning of 10-13-16 Erin Trainor from the EPA arrived on the site. By the end of the day on 10-13-16, many of the damaged and failing controls were removed and replaced, as had been planned. PEC crews, as scheduled, also continued on the following day (10-14-16) to replace additional controls, because McAninch had finished the final grading in the areas. The pictures below show controls before and after the work had taken place.











- Below are pictures of controls that were not damaged during the 10-06-16 inspection but were found to be damaged during the 10-13-16 inspection by the EPA. Controls were repaired by 10-14-16 (Before and after photos)







- “Filter socks were not installed at locations shown on the erosion and sediment control Plan.”

Response:

- McAninch crews were in the process of re spreading and final grading of topsoil when the inspection took place. Many of the controls on the site have been removed and replaced within the week following the inspection as noted in the section above. These activities are still ongoing.



- The above area still needs to be graded out. (The silt fence was previously removed to place the storm sewer, the F.E.S. outlet and rip rap.)





- The area has been cleaned out and double stacked sediment log controls have been placed at the location until the areas are dry enough to fully complete the work.
- Filter socks have been installed at all locations shown on the erosion and sediment control plan that require the use of socks.

- **“Storm sewer inlet protection were not installed.”**

Response:

- Only a few of the street intakes (in the cul-de-sacs of Goodman Court, 161st Ct (south side) and 161st Ct (north side)) had been poured at the time of the site inspection on 10-06-16. These intakes were not complete at that time as the crews were in the process of framing up the inside of the intakes so they could be grouted. At this time the remaining (incomplete) intakes remained covered with steel plates and rock as shown in the picture below.



- Below photos show intakes being prepped and poured during the inspection on 10-13-16. There were also a few that were near completion.





- Since the inspection took place with Erin on 10-13-16 all of the street intakes have been completed and protected with below grade intake bags. (Pictures below taken on 10-14-16).





- Within 24 hours of the EPA inspection of 10-13-16, all of the street intakes that had been completed were protected with below grade intake bags.

- **“Rock outlet protection were not installed at all outlets.”**

Response:

- There were two locations on the site where the outlet protection was not in place at the time of the 10-13-16 EPA inspection. One location was at the outlet of Basin 3A. This area is still in need of final grading and topsoil placement. It was thought best to leave the area as undisturbed as possible until all of the work in the area can be completed. The other outlet is located northwest of the cul-de-sac of 161st court (north section) and outlets into the existing vegetation. This area as well is still in need of final grading and top soil placement. This particular outlet discharges into existing vegetation and ultimately makes its way to Basin 3A.



- Outlet northwest of 161st Court (north side). Still needs final grading and topsoil. Enters existing vegetation and ultimately makes its way to Basin 3A, which serves to contain any discharge.



- These areas are currently being worked on. McAninch was working on the F.E.S. apron footing on the inside of Basin 3A but did not remove the standpipe from this basin like they did on the others due to the concern Erin Trainor had about the other removed standpipes. McAninch crews were still grading and re spreading topsoil on other dry areas of the site and are in the process of making their way down to the F.E.S. outlet area on the northwest side of 161st Court.

- “Accumulated sediments from the sediment basin numbers 3A were not removed.”

Response:

- The SWPPP provides that design of the basins require clean out of sediments when the basin reaches 50%. At the time of the inspection, it is our understanding that this level had not yet been reached. Nevertheless, McAninch went ahead and removed additional sediment from the basins on 10-22-16 so the cunnettes in the basin bottoms could be poured.



- “Stand pipes in three basins were removed from basins at the time of inspection.”

Response:

- The three stand pipes that were removed from the basins at the time of the 10-13-16 inspection were removed to adjust the F.E.S. outlets and to re pour the concrete apron footings. This work had been planned for several weeks and the standpipes had actually been removed just the day before the inspection took place and were reinstalled later in the day that the inspection took place. Weather reports were checked to be certain that a rain event would not occur. The pictures below are from the previous week’s inspection (showing the standpipes in place) and then again the day after the 10-13-16 inspection took place (showing the standpipes in place). To be certain that there would be ne release, McAninch dug sump wells and lined them with rock to pump the water from the basins before removing the standpipes.



Above : Standpipe in Southeast basin.



Above: Standpipe in west central basin



Above: Standpipe in northwest basin



Stormwater Construction Site Inspection Report

General Information			
Project Name	Acadia Plat 2		
NPDES Tracking No.	23817-23576	Location	Urbandale, Iowa
Date of Inspection	08/04/16	Start Time	11:15 AM
Inspector's Name(s)	Mike Kosloske		
Present phase of construction	Sanitary & Storm placement		
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Post-storm event Approximate Amount of Precipitation (in):			
Weather at time of this inspection? <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snowing Temperature: 89 Degrees			
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed
1 Are all disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stabilize inactive areas of the site.
2 Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Many controls recently repaired, more repairs to take place on the areas that were too wet.
3 Are controls and sediment barriers adequately installed and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Many controls recently repaired, more repairs to take place on the areas that were too wet.
4 Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Many controls recently repaired, more repairs to take place on the areas that were too wet.
5 Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
6 Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(All three entrances remain in working order)
7 Is trash/litter from work areas collected and placed in a dumpsters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8 Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9 Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills or leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Clean up the random empty grease tubes around staging area.
10 Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

NOTES:

Ground conditions were mostly dry but pockets of standing water remain in low areas as well as the basins. Crews remain heavily active in the areas dry enough to work, placing sanitary sewer / storm intakes. A number of the storm structures have been poured up to grade but have not been backfilled yet. Multiple silt fence controls that were repaired last week are full again and need to be repaired / replaced. 2 small rip rap checks have been installed in the NW swale. Some of the silt fence controls leading to the Bent Tree Development on the east perimeter have been removed to place a sanitary structure and storm sewer line. These controls will need to be replaced as soon as this work is completed. Repairs to the damaged controls and additional controls will be placed as soon as areas are dry enough to access. Some of the placed F.E.S. structures have had rip rap placed around them. The storm outlet and standpipe have been placed in the basin at the east end of future Darkwood Drive. The inactive areas of the site should be temp stabilized as soon as conditions allow. The porta potty and fuel cell remain leak free, however there are a number of empty grease tubes throughout the staging area that should be cleaned up as to not contaminate the ground. All of the construction entrances were free of track out at the time of inspection.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: _____ Mike Kosloske, SWPPP Inspector, ICCSPPI _____

Signature: _____ On File _____



















Stormwater Construction Site Inspection Report

General Information				
Project Name	Acadia Plat 2			
NPDES Tracking No.	23817-23576	Location	Urbandale, Iowa	
Date of Inspection	08/11/16	Start Time	11:45 AM	
Inspector's Name(s)	Mike Kosloske			
Present phase of construction	Sanitary & Storm placement			
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Post-storm event Approximate Amount of Precipitation (in):				
Weather at time of this inspection? <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snowing Temperature: 78 Degrees				
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
#	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed
1	Are all disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stabilize inactive areas of the site.
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Number of controls will need repair after the morning rain.
3	Are controls and sediment barriers adequately installed and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Number of controls will need repair after the morning rain.
4	Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Number of controls will need repair after the morning rain.
5	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(All three entrances remain in working order)
7	Is trash/litter from work areas collected and placed in a dumpsters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills or leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Clean up the random empty grease tubes around staging area.
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

NOTES:

Ground conditions were very wet and muddy. Water remains in the basins. The site was inactive given the ground conditions. A few more of the storm structures have been poured up to grade. All of the structures that are at grade remain covered with plates or wood. Multiple silt fence controls that were repaired last week are full again and need to be repaired / replaced. 2 small rip rap checks have been installed in the NW swale. Some of the silt fence controls leading to the Bent Tree Development on the east perimeter have been removed to place a sanitary structure and storm sewer line. These controls will need to be replaced as soon as this work is completed. Repairs to the damaged controls and additional controls will be placed as soon as areas are dry enough to access. Some of the placed F.E.S. structures have had rip rap placed around them. The storm outlet and standpipe have been placed in the basin at the east end of future Darkwood Drive. They are now using this basin as an outlet to drain the basin to the south. The inactive areas of the site should be temp stabilized as soon as conditions allow. The porta potty and fuel cell remain leak free, however there are a number of empty grease tubes throughout the staging area that should be cleaned up as to not contaminate the ground. All of the construction entrances were free of track out at the time of inspection.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: _____ Mike Kosloske, SWPPP Inspector, ICCSPPI _____

Signature: _____ On File _____















Stormwater Construction Site Inspection Report

General Information				
Project Name	Acadia Plat 2			
NPDES Tracking No.	23817-23576	Location	Urbandale, Iowa	
Date of Inspection	08/18/16	Start Time	11:15 AM	
Inspector's Name(s)	Mike Kosloske			
Present phase of construction	Sanitary & Storm placement			
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Post-storm event Approximate Amount of Precipitation (in):				
Weather at time of this inspection? <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snowing Temperature: 91 Degrees				
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	BMP/activity	Implemented?	Maintenance Required?	
			Corrective Action Needed	
1	Are all disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stabilize inactive areas of the site.
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Crews scheduled to be on site tomorrow
3	Are controls and sediment barriers adequately installed and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Crews scheduled to be on site tomorrow
4	Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Crews scheduled to be on site tomorrow
5	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(All three entrances remain in working order)
7	Is trash/litter from work areas collected and placed in a dumpsters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills or leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Clean up the random empty grease tubes around staging area.
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

NOTES:

Ground conditions were mostly dry. Water remains in the basins. The site was active with pipe crews working on various areas of the site. A few more of the storm structures have been poured up to grade. All of the structures that are at grade remain covered with plates or wood. 2 small rip rap checks have been installed in the NW swale. Some of the silt fence controls leading to the Bent Tree Development on the east perimeter have been removed to place a sanitary structure and storm sewer line. These controls will need to be replaced as soon as this work is completed. Crews are scheduled to be on site to place / repair the controls tomorrow. Some of the placed F.E.S. structures have had rip rap placed around them. The storm outlet and standpipe have been placed in the basin east of Goodman court. The inactive areas of the site should be temp stabilized as soon as conditions allow. The porta potty and fuel cell remain leak free, however there are a number of empty grease tubes throughout the staging area that should be cleaned up as to not contaminate the ground. All of the construction entrances were free of track out at the time of inspection.

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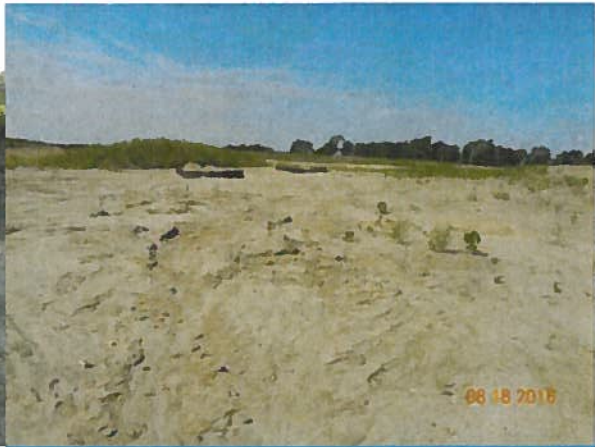
Print name and title: _____ Mike Kosloske, SWPPP Inspector, ICCSPPI _____

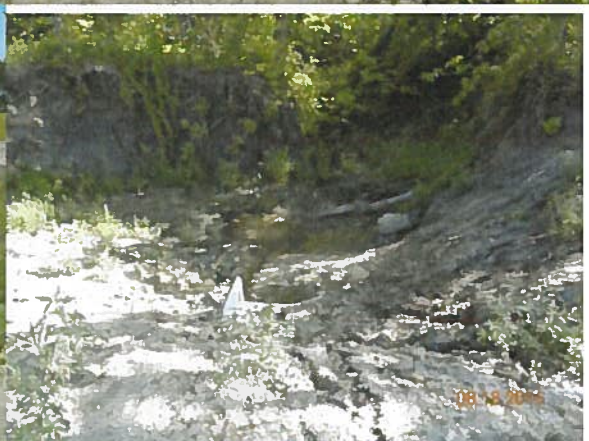
Signature: _____ On File _____

















Stormwater Construction Site Inspection Report

General Information			
Project Name	Acadia Plat 2		
NPDES Tracking No.	23817-23576	Location	Urbandale, Iowa
Date of Inspection	08/25/16	Start Time	11:15 AM
Inspector's Name(s)	Mike Kosloske		
Present phase of construction	Sanitary & Storm placement		
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Post-storm event Approximate Amount of Precipitation (in):			
Weather at time of this inspection? <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snowing Temperature: 70 Degrees			
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	BMP/activity	Implemented?	Maintenance Required?
1	Are all disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Are controls and sediment barriers adequately installed and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
6	Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Is trash/litter from work areas collected and placed in a dumpsters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills or leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

NOTES:

Ground conditions were still a little wet and tacky in areas. The site was active with a small McAninch crew working on road grade prep in a few areas that were dry. A Pezzetti silt fence crew was also on site making repairs and additional control placements. More of the storm structures have been poured up to grade. All of the structures that are at grade remain covered with plates or wood. The swale that was graded onto the neighboring property at the SE basin outlet has been seeded and matted since last week. New controls have been placed on the site around the central undisturbed drainage area and upslope from the neighboring Bent Tree Development. Some of the placed F.E.S. structures have had rip rap placed around them. The inactive areas of the site should be temp stabilized as soon as conditions allow. The porta potty and fuel cell remain leak free, however there are a number of empty grease tubes throughout the staging area that should be cleaned up as to not contaminate the ground. All of the construction entrances were free of track out at the time of inspection.

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Print name and title: _____ Mike Kosloske, SWPPP Inspector, ICCSPPI _____

Signature: _____ On File _____















Stormwater Construction Site Inspection Report

General Information				
Project Name	Acadia Plat 2			
NPDES Tracking No.	23817-23576	Location	Urbandale, Iowa	
Date of Inspection	09/01/16	Start Time	11:15 AM	
Inspector's Name(s)	Mike Kosloske			
Present phase of construction	Sanitary & Storm placement			
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Post-storm event Approximate Amount of Precipitation (in):				
Weather at time of this inspection? <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snowing Temperature: 76 Degrees				
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed
1	Are all disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stabilize inactive areas of the site.
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Majority of controls in place. Remaining areas still too wet.
3	Are controls and sediment barriers adequately installed and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Majority of controls in place. Remaining areas still too wet.
4	Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Majority of controls in place. Remaining areas still too wet.
5	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(All three entrances remain in working order)
7	Is trash/litter from work areas collected and placed in a dumpsters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills or leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

NOTES:

Ground conditions were mostly dry some of the low areas as well as the basin areas remain with with standing water. The site was active with a small McAninch crew working on road grade prep in a few areas that were dry. A majority of this work was taking place on the northern section of future Sharon Court. More silt fence controls have been placed since I left the site last week. There are still a few remaining areas where the existing fences need to be cleaned out but the areas are still too wet to access. All of the structures that are at grade remain covered with plates or wood. The swale that was graded onto the neighboring property at the SE basin outlet has been seeded and matted. It is starting to get a good stand of grass. There is a small part of the matting that was driven over by what looks to be the home owner from mowing. New controls have been placed on the site around the central undisturbed drainage area and upslope from the neighboring Bent Tree Development. Some of the placed F.E.S. structures have had rip rap placed around them. The inactive areas of the site should be temp stabilized as soon as conditions allow. The porta potty and fuel cell remain leak free. All of the construction entrances were free of track out at the time of inspection.

CERTIFICATION STATEMENT

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Print name and title: _____ Mike Kosloske, SWPPP Inspector, ICCSPPI _____

Signature: _____ On File _____

















Stormwater Construction Site Inspection Report

General Information				
Project Name	Acadia Plat 2			
NPDES Tracking No.	23817-23576	Location	Urbandale, Iowa	
Date of Inspection	09/08/16	Start Time	11:15 AM	
Inspector's Name(s)	Mike Kosloske			
Present phase of construction	Road subgrade prep			
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Post-storm event Approximate Amount of Precipitation (in):				
Weather at time of this inspection? <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snowing Temperature: 80 Degrees				
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed
1	Are all disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stabilize inactive areas of the site.
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Multiple control failures from yesterday's rain. Work order in place to repair when things dry up.
3	Are controls and sediment barriers adequately installed and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Multiple control failures from yesterday's rain. Work order in place to repair when things dry up.
4	Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Multiple control failures from yesterday's rain. Work order in place to repair when things dry up.
5	Are storm drain inlets properly protected?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Covered with steel plates. Some need adjustment.
6	Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(All three entrances remain in working order)
7	Is trash/litter from work areas collected and placed in a dumpsters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills or leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

NOTES:

Ground conditions were very wet and muddy from yesterday's rain the basin areas remain nearly full with standing water. The site was inactive due to the conditions. Nearly all of the future street areas have had grade stakes set for sub grade for paving. A good portion of the newly placed and repaired controls are damaged or full again from yesterday's heavy rain. A work order will be put in place to make the needed repairs as soon as it dries up a bit. All of the storm structures remain covered with plates or wood, some of these need to be readjusted over the intakes. The swale that was graded onto the neighboring property at the SE basin outlet has been seeded and matted. It is starting to get a good stand of grass. There is a small part of the matting that was driven over by what looks to be the home owner from mowing. Some of the sediment log controls have been dislodged from the heavy water flow. New controls have been placed on the site around the central undisturbed drainage area and upslope from the neighboring Bent Tree Development. Additional controls will be needed due to the heavy rain yesterday. Some of the placed F.E.S. structures have had rip rap placed around them. Rock should be placed at the outlets of the remaining F.E.S. structures. The inactive areas of the site should be temp stabilized as soon as conditions allow to help slow down the sediment moving across the bare site. The porta potty and fuel cell remain leak free. All of the construction entrances were free of track out at the time of inspection.

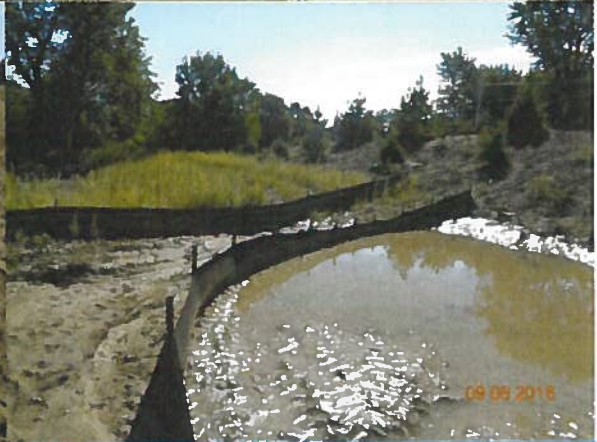
CERTIFICATION STATEMENT

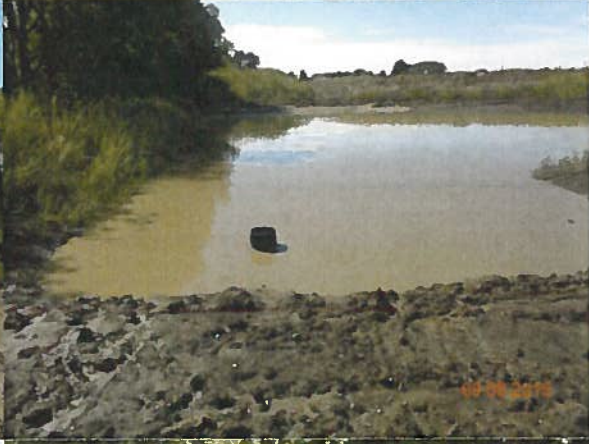
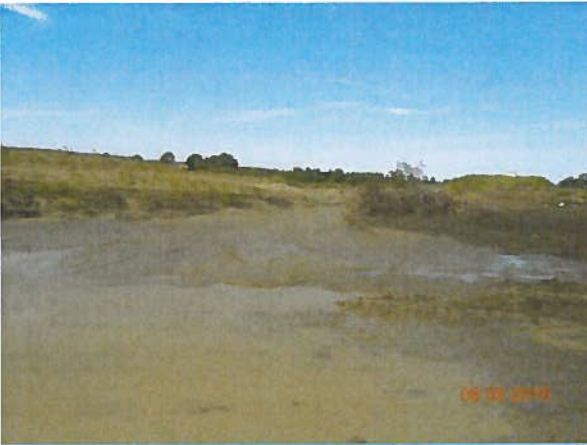
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: _____ Mike Kosloske, SWPPP Inspector, ICCSPPI _____

Signature: _____ On File _____





















Stormwater Construction Site Inspection Report

General Information				
Project Name	Acadia Plat 2			
NPDES Tracking No.	23817-23576	Location	Urbandale, Iowa	
Date of Inspection	09/15/16	Start Time	10:45 AM	
Inspector's Name(s)	Mike Kosloske			
Present phase of construction	Road subgrade prep			
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Post-storm event Approximate Amount of Precipitation (in):				
Weather at time of this inspection? <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snowing Temperature: 79 Degrees				
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed
1	Are all disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stabilize inactive areas of the site.
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Some repairs have been made since last week. More to be done when the areas dry up.
3	Are controls and sediment barriers adequately installed and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Some repairs have been made since last week. More to be done when the areas dry up.
4	Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Some repairs have been made since last week. More to be done when the areas dry up.
5	Are storm drain inlets properly protected?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Covered with steel plates. Some need adjustment.
6	Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(All three entrances remain in working order)
7	Is trash/litter from work areas collected and placed in a dumpsters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills or leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

NOTES:

Ground conditions remain wet and muddy and the basin areas remain nearly full with standing water. The site was active with McAninch crews working on the road base prep on the south end of the site. This was about the only area dry enough to work. Nearly all of the future street areas have had grade stakes set for sub grade prepping. Multiple control repairs and a few new placements have taken place since last week. There are more repairs needed as soon as the ground dries up enough to access them. A work order remains in place to make the needed repairs as soon as it dries up a bit. All of the storm structures remain covered with plates or wood, some of these need to be readjusted over the intakes. The swale that was graded onto the neighboring property at the SE basin outlet has been seeded and matted. It is starting to get a good stand of grass. There is a small part of the matting that was driven over by what looks to be the home owner from mowing. Some of the sediment log controls have been dislodged from the heavy water flow. New controls have been placed on the site around the central undisturbed drainage area and upslope from the neighboring Bent Tree Development. Some of the placed F.E.S. structures have had rip rap placed around them. Rock should be placed at the outlets of the remaining F.E.S. structures. The inactive areas of the site should be temp stabilized as soon as conditions allow to help slow down the sediment moving across the bare site. The porta potty and fuel cell remain leak free. All of the construction entrances were free of track out at the time of inspection.

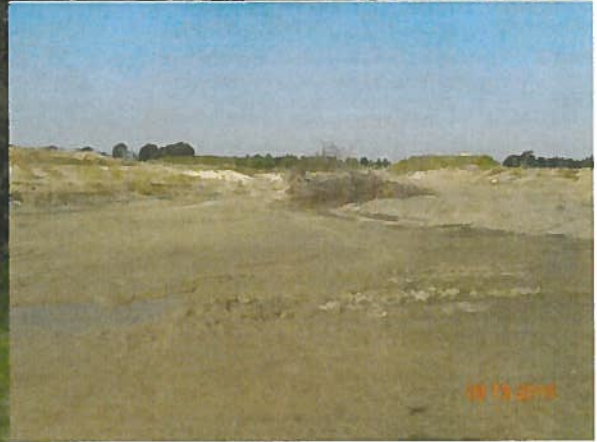
CERTIFICATION STATEMENT

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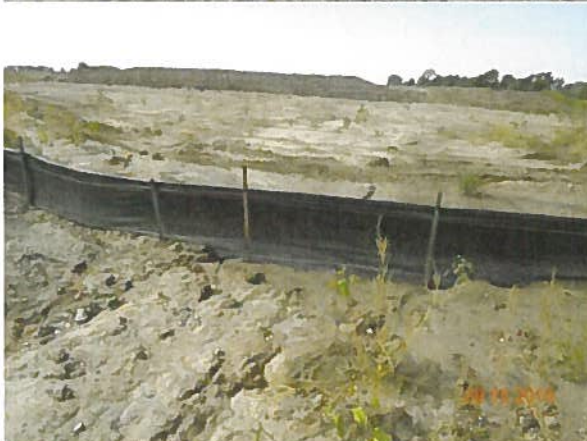
Print name and title: Mike Kosloske, SWPPP Inspector, ICCSPPI

Signature: On File



















Stormwater Construction Site Inspection Report

General Information				
Project Name	Acadia Plat 2			
NPDES Tracking No.	23817-23576	Location	Urbandale, Iowa	
Date of Inspection	09/22/16	Start Time	10:45 AM	
Inspector's Name(s)	Mike Kosloske			
Present phase of construction	Road subgrade prep / Paving / Stabilization			
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Post-storm event Approximate Amount of Precipitation (in):				
Weather at time of this inspection? <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snowing Temperature: 72 Degrees				
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed
1	Are all disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stabilize inactive areas of the site.
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Some repairs have been made since last week. More to be done when the areas dry up.
3	Are controls and sediment barriers adequately installed and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Some repairs have been made since last week. More to be done when the areas dry up.
4	Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Some repairs have been made since last week. More to be done when the areas dry up.
5	Are storm drain inlets properly protected?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Covered with steel plates. Some need adjustment.
6	Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(All three entrances remain in working order)
7	Is trash/litter from work areas collected and placed in a dumpsters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills or leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

NOTES:

Ground conditions were somewhat dry the basin areas remain nearly full with standing water. The site was active with Alliance crews Paving the northern street and Pezzetti seeding crews working on the southern berm areas. Alliance crews were also working on prepping the other future street areas within the site. Some additional control repairs and a few new placements have taken place since last week. There are more repairs needed as soon as the ground dries up enough to access them. A work order remains in place to make the needed repairs as soon as it dries up a bit. All of the storm structures remain covered with plates or wood, some of these need to be readjusted over the intakes. The swale that was graded onto the neighboring property at the SE basin outlet has been seeded and matted. It is starting to get a good stand of grass. Some of the sediment log controls have been dislodged from the heavy water flow. New controls have been placed on the site around the central undisturbed drainage area and upslope from the neighboring Bent Tree Development. Some of the placed F.E.S. structures have had rip rap placed around them. Rock should be placed at the outlets of the remaining F.E.S. structures. The porta potty and fuel cell remain leak free. All of the construction entrances were free of track out at the time of inspection. 2 roll off concrete washout areas have been placed on the site for the paving activities.

CERTIFICATION STATEMENT

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Print name and title: _____ Mike Kosloske, SWPPP Inspector, ICCSPPI _____

Signature: _____ On File _____





















Stormwater Construction Site Inspection Report

General Information			
Project Name	Acadia Plat 2		
NPDES Tracking No.	23817-23576	Location	Urbandale, Iowa
Date of Inspection	09/29/16	Start Time	11:00 AM
Inspector's Name(s)	Mike Kosloske		
Present phase of construction	Road subgrade prep / Paving / Stabilization		
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Post-storm event Approximate Amount of Precipitation (in):			
Weather at time of this inspection? <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snowing Temperature: 65 Degrees			
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	BMP/activity	Implemented?	Maintenance Required?
1	Are all disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Are controls and sediment barriers adequately installed and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5	Are storm drain inlets properly protected?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Is trash/litter from work areas collected and placed in a dumpsters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills or leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

NOTES:

Ground conditions were somewhat dry during today's inspection. It appears that crews have been working on pumping out the basin areas so the sediment can be cleaned out of them and the final grading can be done on them. The site was active with multiple Alliance crews paving sections of the streets and storm intakes throughout the site. More control repairs and placements will be made as soon as the ground dries up enough to access them. A work order remains in place to make the needed repairs as soon as it dries up a bit. The swale that was graded onto the neighboring property at the SE basin outlet has been seeded and matted. It is starting to get a good stand of grass. There is some standing water on the far east section on the matting. Some of the sediment log controls have been dislodged from the heavy water flow. New controls have been placed on the site around the central undisturbed drainage area and upslope from the neighboring Bent Tree Development. Some of the placed F.E.S. structures have had rip rap placed around them. Rock should be placed at the outlets of the remaining F.E.S. structures. All of the construction entrances were free of track out at the time of inspection. Multiple roll off concrete washout areas have been placed throughout the site for the paving activities. The south east berm area along Meredith has been seeded and hydro mulched along with the small section of Outlot X where trees have been planted. There was track out visible onto Meredith due to the heavy concrete truck traffic into the site that should be cleaned up.

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Signature: _____ On File _____

















Stormwater Construction Site Inspection Report

General Information				
Project Name	Acadia Plat 2			
NPDES Tracking No.	23817-23576	Location	Urbandale, Iowa	
Date of Inspection	10/06/16	Start Time	11:15 AM	
Inspector's Name(s)	Mike Kosloske			
Present phase of construction	Black dirt respread / Paving / Stabilization			
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Post-storm event Approximate Amount of Precipitation (in):				
Weather at time of this inspection? <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snowing Temperature: 64 Degrees				
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
#	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed
1	Are all disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topsoil respreads has started
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	More placements / repairs to be done when as areas dry up.
3	Are controls and sediment barriers adequately installed and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	More placements / repairs to be done when as areas dry up.
4	Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	More placements / repairs to be done when as areas dry up.
5	Are storm drain inlets properly protected?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Covered with steel plates. Some in process of being poured.
6	Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(All three entrances remain in working order)
7	Is trash/litter from work areas collected and placed in a dumpsters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills or leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

NOTES:

Ground conditions were somewhat dry during today's inspection. The site was active with multiple Alliance crews paving sections of the streets and storm intakes throughout the site. McAninch crews were on site starting on the curb backfilling and topsoil respreads on the project. Some of the basin areas have been started to get mucked out as well. I spoke to the McAninch foreman on site and he asked that we hold off on any control placements until after next week as they will be pulling a number of the existing fences for the topsoil respreads to take place. We will review the site and their progress after next weeks inspection. The swale that was graded onto the neighboring property at the SE basin outlet has been seeded and matted. It is starting to get a good stand of grass. There is some standing water on the far east section on the matting. Some of the sediment log controls have been dislodged from the heavy water flow. New controls have been placed on the site around the central undisturbed drainage area and upslope from the neighboring Bent Tree Development. Some of the placed F.E.S. structures have had rip rap placed around them. Rock should be placed at the outlets of the remaining F.E.S. structures. All of the construction entrances were free of track out at the time of inspection. Multiple roll off concrete washout areas have been placed throughout the site for the paving activities. The south east berm area along Meredith has been seeded and hydro mulched along with the small section of Outlot X where trees have been planted. A section of the West side of the southern berm has been tore up as the grading was not correct and needed to be re graded. This area will need to be seeded again. There was track out visible onto Meredith due to the heavy concrete truck traffic into the site that should be cleaned up.

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Print name and title: _____ Mike Kosloske, SWPPP Inspector, ICCSPPI _____

Signature: _____ On File _____



















- **“Building material wastes (Bore-Gel) was not disposed of properly as required by part IV.D.2.C.”**

Response:

- After further investigation the product in question was actually (TRU-BORE). The MSDS sheets for the product are included with this letter. On page 6 in Section 15 – Regulatory Information – EPA RCRA Hazardous Waste Classification it states that if the product becomes a waste, it does not meet the criteria of a hazardous waste as defined by the US EPA. The product is used by most well drillers as a lubricant when, as here, they needed to bore a hole under the roadway for the installation of an electrical conduit. The remnants to the product evaporate with no damage to any persons or the environment.



TRU-BORE®



Product Information

Description

TRU-BORE® is a highly concentrated bentonite based drilling fluid designed for difficult drilling operations in both vertical and horizontal borings. It is extremely effective high performance viscosifier for horizontal drilling applications to maintain hole integrity during pullback. It is non-toxic and environmentally safe. Its fast-hydrating formula allows contractors to mix fast and build viscosity quickly. **TRU-BORE®** stabilizes formations ranging from moderate clay soils to high concentrations of sand. By forming a thin tough filter cake, fluid loss to areas around the borehole is reduced. These factors, coupled with excellent gel strength values make **TRU-BORE®** the best risk management tool available today.

Characteristics

- Barrel Yield: 240 - 260
- Fluid Loss: 12 – cc.
- Mesh: 80% ± 2 passing 200 mesh
- PH 8.1 ± .2
- Moisture: 8% ± 1.5

Application

For every 100 gallons of make-up water, adding 15 to 25 pounds of **TRU-BORE®** will yield a viscosity of approximately 45 seconds on a Marsh Funnel. At a rate of 27 pounds per 100 gallons, viscosity can climb to 60 seconds.

CLAY
1½ bags for viscosity of 32-35 seconds, then add UNI-DRILL® liquid polymer to reach a viscosity of 42-45 seconds. (The addition of UNI-DRILL® keeps the clays from thickening the mud system even more.)
SAND
2¾ - 3 bags for viscosity of 55 ± seconds
UNKNOWN OR MEDIUM SOILS
1½ - 3 bags for viscosity of 45 seconds

Packaging

TRU-BORE® is packaged in 50 pound multi-walled paper bags, palletized 60 bags per pallet and shrink-wrapped.

4375/201302

WYO-BEN, INC., Billings, Montana

800.548.7055

406.652.6351

www.wyoben.com

The information and data made herein are believed to be accurate. As Wyo-Ben, Inc. has no control over use or application of this product, it is sold without warranty or guarantee of results.



WYO-BEN, INC.

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: **TRU-BORE®**
Chemical Family: Mineral
Application: Drilling Fluid Additive
Manufacturer/Supplier: Wyo-Ben, Inc.
1345 Discovery Drive
Billings, MT 59102 USA
Telephone: 800.548.7055
Facsimile: 406.656.0748
Emergency Phone Number: CHEMTREC® 800.424.9300

SECTION 2 — HAZARD IDENTIFICATION

Hazard Classification: Carcinogenicity
Signal Word: Warning
Hazard Overview: CHRONIC HEALTH HAZARD
Breathing crystalline silica can cause lung disease, including silicosis and lung cancer.
Hazard Symbol: Health Hazard
Precautionary Statements: Promptly clean up spills to avoid creating airborne dust.
Avoid breathing airborne dust.
Wear a NIOSH/MSHA European Standard En149 respirator, or equivalent certified for silica bearing dust, when using this product.
Product is slippery when wet.
Hazards Not Otherwise Classified: None known.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	Percent
Crystalline Silica, quartz	14808-60-7	≤6%

SECTION 4 — FIRST AID MEASURES

Inhalation: If inhaled, remove to a dust free area. Get medical attention if respiratory irritation develops or if breathing becomes difficult. Inhalation may aggravate existing respiratory illness.
Skin: Wash with soap and water until clear. Seek medical attention if irritation persists.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Ingestion: No adverse effects.

Notes to Physician: Treat Symptomatically.

SECTION 5 — FIRE FIGHTING MEASURES

Fire Extinguishing Media: All standard firefighting media. (Caution slippery when wet.)

Special Exposure Hazards: Not applicable

Special Protective Equipment for Firefighters: Not applicable

NFPA Ratings: Health 0, Flammability 0, Reactivity 0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Use appropriate protective equipment. Avoid creating and breathing dust.

Environmental Precautionary Measures: None known.

Procedure for Cleaning/Absorption: Collect using appropriate dustless method and hold for appropriate disposal.

SECTION 7 — HANDLING AND STORAGE

Handling Precautions: This product contains quartz which may become airborne. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH/MSHA European Standard En 149, or equivalent certified for silica bearing dust, respirator when using this product. Material is slippery when wet. Promptly clean up spills to avoid breathing airborne dust.

Storage Information: Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Do not reuse empty container.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Substances	CAS Number	ACGIH TLV-TWA	OSHA PEL-TWA*
Crystalline Silica, quartz	14808-60-7	0.025 mg/m ³	$\frac{10 \text{ mg/m}^3}{\% \text{SiO}_2 + 2}$

*More restrictive exposure limits may be enforced by some states, agencies, or other authorities.

Engineering Controls: Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits.

Personal Protective Equipment: If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory Protection: Not normally needed. If significant exposures are possible use NIOSH/MSHA respirator approved for silica bearing dust.

Hand Protection: Normal work gloves.

Skin Protection:	Wear clothing appropriate for the work environment. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering clothing.
Eye Protection:	Wear safety glasses or goggles to protect against exposure.
Other Precautions:	None known.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Color:	Light tan to gray as dry powder
Odor:	Odorless
pH:	8 – 10 (5% aqueous solution)
Specific Gravity @ 20 C (Water=1):	2.45 – 2.55
Density @ 20 C (lbs/gallon):	Not determined
Bulk Density @ 20 C (lbs/ft ³):	49 – 55
Boiling Point/Range (F):	Not applicable
Boiling Point/Range (C):	Not applicable
Freezing Point/Range (F):	Not applicable
Freezing Point/Range (C):	Not applicable
Vapor Pressure @ 20 C (mmHg):	Not applicable
Vapor Density (Air=1):	Not applicable
Percent Volatiles:	Not applicable
Evaporation Rate (Butyl Acetate=1):	Not applicable
Solubility in Water (g/100ml):	Insoluble, forms colloidal suspension
Solubility in Solvents (g/100ml):	Not applicable
VOCs (lbs/gallon):	Not applicable
Viscosity, Dynamic @ 20 C (centipoise):	240
Viscosity, Kinematic @ 20 C (centistrokes):	Not determined
Partition Coefficient/n-Octanol/Water:	Not applicable
Molecular Weight (g/mole):	Not applicable
Flash Point/Range (F):	Not applicable
Flash Point/Range (C):	Not applicable
Flash Point Method:	Not applicable
Autoignition Temperature (F):	Not applicable
Autoignition Temperature (C):	Not applicable
Flammability Limits in Air – Lower (%):	Not applicable
Flammability Limits in Air – Upper (%):	Not applicable

SECTION 10 — STABILITY AND REACTIVITY

Stability Data:	Stable
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid:	None anticipated
Incompatibility (Materials to Avoid):	Hydrofluoric Acid
Hazardous Decomposition Products:	None
Additional Guidelines:	Not applicable

SECTION 11 — TOXICOLOGICAL INFORMATION

Principle Route of Exposure:	Eye or skin contact, inhalation.
Inhalation:	Inhaled crystalline silica in the form of quartz from occupational sources is carcinogenic to humans (IARC, Group 1).
Skin Contact:	May cause mechanical skin irritation.
Eye Contact:	May cause eye irritation.
Ingestion:	None known
Aggravated Medical Conditions:	Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should not be exposed to respirable quartz-bearing dust.
Chronic Effects/Carcinogenicity:	<p>Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.</p> <p>Cancer Status: The International Agency for Research on Cancer (IARC, 1997) concludes that there is sufficient evidence in humans for carcinogenicity of inhaled crystalline silica from occupational sources (IARC Group 1), that carcinogenicity was not detected in all industrial circumstances studied and that carcinogenicity may depend on characteristics of the crystalline silica or on external factors affecting its biological activity. See IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997). The National Toxicology Program (NTP) classifies respirable crystalline silica as "Known to be a human carcinogen" (NTP 9th Report on Carcinogens, 2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).</p>
Other Information:	See "Adverse Effects of Crystalline Silica Exposure" published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume 155, pages 761-768 (1997).

Toxicity Tests

Oral Toxicity:	Not determined
Dermal Toxicity:	Not determined

Inhalation Toxicity:	Not determined
Primary Irritation Effect:	Not determined

Carcinogenicity:	Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997).
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Genotoxicity:	Not determined
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Reproductive/Developmental Toxicity:	Not determined
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SECTION 12 — ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air):	Not determined
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Persistence/Degradability:	Not determined
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Bio-accumulation:	Not determined
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Ecotoxicological Information

Acute Fish Toxicity:	Not determined
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Acute Crustaceans Toxicity:	Not determined
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Acute Algae Toxicity:	Not determined
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Chemical Fate Information:	Not determined
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Other Information:	Not applicable
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SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal Method:	If product should become a waste dispose in a licensed landfill according to federal, state and local regulations.
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Contaminated Packaging:	Follow all applicable national or local regulations.
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SECTION 14 — TRANSPORT INFORMATION

Land Transportation

DOT – Not Restricted

Canadian TDG – Not Restricted

ADR – Not Restricted

Air Transportation

ICAO/IATA – Not Restricted

Sea Transportation

IMDG – Not Restricted

Other Transportation Information

Labels: None

SECTION 15 — REGULATORY INFORMATION

US Regulations

US TSCA Inventory	All components listed on inventory or are exempt.
EPA SARA Title III Extremely Hazardous Substances	Not applicable
EPA SARA (311, 312) Hazard Class	Chronic Health Hazard
EPA SARA (313) Chemicals	This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).
EPA CERCLA/Superfund Reportable Spill Quantity	Not applicable
EPA RCRA Hazardous Waste Classification	If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.
California Proposition 65	This product contains crystalline silica (respirable) which is a substance known to the State of California to cause cancer.

Canadian Regulations

Canadian DSL Inventory	All components listed on inventory or are exempt.
WHMIS Hazard Class	This product contains crystalline silica (respirable) and is classified as a Class D, Division 2, Subdivision A substance.

SECTION 16 — OTHER INFORMATION

Prepared 03/18/2015
Last Revision 08/06/2015

DISCLAIMER

All information presented herein is believed to be accurate; however, it is the user's responsibility to determine in advance of need that the information is current and suitable for their circumstances. No warranty or guarantee, expressed or implied is made by WYO-BEN, INC. as to this information, or as to the safety, toxicity or effect of the use of this product.

- **“The SWPPP was not signed as required by Part VI.G.”**

Response:

- The signed owner’s certification is included with this letter. We apologize for this oversight.

OWNER CERTIFICATION STATEMENT
FOR
ACADIA PLAT 2
URBANDALE, IOWA

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signed:

Kenna Johnson

Title:

President Accurate Land Co.

Date:

10-26-16

- **“Contractors and/or subcontractors working on the site were not identified in and did not sign the SWPPP as required by Part IV D.D.7.”**

Response:

- Included in this letter are copies on the signed contractor certifications for the contractors that have been working on the project site. Care will be taken in the future to be sure everyone gets signed up.

Contractor/Subcontractor Certification Statement

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

NPDES Permit Authorization Number: 23817-23576

Project Title: Acadia Plat 2

Operator(s): _____

As a contractor or subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each contractor and subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site as part of this certification. Further, by my signature, I understand that I am becoming a co-permittee, along with the owner(s) and other contractors and subcontractors signing such certifications, to NPDES General Permit No. 2 for "Storm Water Discharge Associated with Industrial Activity for Construction Activities" at the identified site. As a co-permittee, I understand that I, and my company, are legally required under the Clean Water Act and the Code of Iowa, to ensure compliance with the terms and conditions of the storm water pollution prevention plan developed under this NPDES permit and the terms of this NPDES permit.

This certification is hereby signed in reference to the above named project:

Company: Alliance Construction Group

Address: 3000 SE Grimes Blvd, Suite 800 Grimes, IA 50111

Telephone Number: 515-225-6677

Type of construction service to be provided: PCC Paving

Signature: 

Title: President

Date: 10/26/16

Contractor/Subcontractor Certification Statement

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

NPDES Permit Authorization Number: 23817-23576

Project Title: Acadia Plat 2

Operator(s): _____

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This certification is hereby signed in reference to the above named project:

Company: Bentley Ridge Tree Farm

Address: 5398 170th St. ; Urbandale IA 50323

Telephone Number: 515-778-2864

Type of construction service to be provided: Tree planting

Signature: 

Title: Controller

Date: 10/26/16

Contractor/Subcontractor Certification Statement

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

NPDES Permit Authorization Number: 23817-23576

Project Title: Acadia Plat 2

Operator(s): _____

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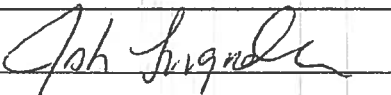
This certification is hereby signed in reference to the above named project:

Company: DSM Property Services LLC.

Address: 2900 Justin Dr. Suite L Urbandale, IA. 50322

Telephone Number: 515-802-8118

Type of construction service to be provided: Concrete

Signature: 

Title: owner

Date: 10/26/16

Contractor/Subcontractor Certification Statement

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

NPDES Permit Authorization Number: 23817-23576

Project Title: Acadia Plat 2

Operator(s): _____

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This certification is hereby signed in reference to the above named project:

Company: Henriksen Contracting, LLC

Address: 4154 SE Capitol Circle GRIMES, IA 50111

Telephone Number: 515-986-4243

Type of construction service to be provided: Joint Sealing on new pavement

Signature: Charles

Title: President

Date: 10-26-14

Contractor/Subcontractor Certification Statement

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

NPDES Permit Authorization Number: 23817-23576

Project Title: Acadia Plat 2

Operator(s): _____

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This certification is hereby signed in reference to the above named project:

Company: McAninch Corporation


Address: 4001 Delaware Avenue, Des Moines, IA 50313

Telephone Number: 515-267-2500

Type of construction service to be provided: Grading, Storm Sewer, Sanitary Sewer and

Water Main and Services

Signature:


Douglas D. McAninch

Title:

President

Date:

10-26-2016

Contractor/Subcontractor Certification Statement

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

NPDES Permit Authorization Number: 23817-23576

Project Title: Acadia Plat 2

Operator(s): _____

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This certification is hereby signed in reference to the above named project:

Company: Pezzetti Erosion Control LLC

Address: 5700 University Ave, Suite 220 West Des Moines IA 50266

Telephone Number: 515-967-0639

Type of construction service to be provided: Site Inspections - Erosion Control

- Temp Stabilization

Signature: Michael Kushe

Title: Project Manager

Date: Oct 26 2016

Contractor/Subcontractor Certification Statement

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

NPDES Permit Authorization Number: 23817-23576

Project Title: Acadia Plat 2

Operator(s): _____

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This certification is hereby signed in reference to the above named project:

Company: Tesdell Electric Ltd

Address: 1514 NE 69th Pl

Telephone Number: 515-289-4000

Type of construction service to be provided: Electric

Signature: _____

Ron Tesdell

Digitally signed by Ron Tesdell
DN: cn=Ron Tesdell, o=Tesdell Electric Ltd, ou,
email=ron@tesdell.com, c=US
Date: 2016.10.28 09:00:00 -05'00'

Title: President

Date: 10/28/2016